

NASA Technical Memorandum 85015

**COSPAS-SARSAT
Satellite Predictor
Volume XVI**

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October 1990

(NASA-TM-85015-Vol-16) COSPAS-SARSAT
SATELLITE ORBIT PREDICTOR, VOLUME 16
Almanac, 16 Oct. 1990 - 15 Apr. 1991 (NASA)
109 p

N90-71412

Unclass
00/15 0310408



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1990

GLOSSARY

AOS	Acquisition of Signal
COSPAS	Space System for Search of Vessels in Distress (USSR)
ELT	Emergency Locator Transmitter
EPIRB	Emergency Position Indicating Radio Beacon
GMT	Greenwich Mean Time
LOS	Loss of Signal
LUT	Local User Terminal
SARSAT	Search and Rescue Satellite Aided Tracking

SATELLITE ORBIT PREDICTOR

The satellite orbit predictor is a graphical aid for determining the relationship between the satellite (SARSAT or COSPAS) orbit, antenna coverage of the spacecraft and coverage of the LUT's. The predictor allows the user to quickly visualize if a selected position will probably be detected and is composed of a base map and a satellite track overlay for each satellite. Additionally, a table of equator crossings for each satellite is included.

In order for a LUT to receive ELT/EPIRB information from a satellite, mutual visibility between the satellite, LUT and ELT/EPIRB must occur. Mutual visibility requires two simultaneous conditions:

- a. The satellite subtrack or ground track must lie within a LUT coverage circle for at least 4 minutes.
- b. and the suspected ELT/EPIRB must lie within the satellite antenna coverage swath during the 4 minute period.

The base map is a polar stereographic projection of the northern hemisphere. The LUT coverage circles are based on the LUT seeing the satellite at the horizon. On projections of this type equal increments of latitude are not equidistant. Therefore, the map includes a dot matrix in the ocean areas with the dots printed as a one degree latitude by one degree longitude field. Another property of the projection is that the center of the LUT coverage does not coincide with the actual geographical position of the LUT.

The overlay shows the satellite ground track or subtrack (black) starting from the ascending node (northbound equator crossing) and continuing minute by minute across the overlay. In addition, the 10 degree coverage limits of the spacecraft antenna (red) are plotted on both sides of the subtrack. The yellow lines connecting the antenna coverage swath and the subtrack indicate time in minutes. Just to the west of the left hand antenna coverage limit is a short line segment (labeled "next pass") which is the index for the next ascending note equator crossing.

The table of satellite equator crossings contains the zulu date/time group that a satellite will cross the equator northbound, the orbit number, and the longitude that it will cross the equator. A particular orbit starts when the satellite crosses the equator northbound (ascending) and ends just prior to the next ascending node equator crossing. The longitudes are listed in degrees east longitude, i.e., a negative number in this column is a west longitude.

To use the predictor, first select an equator crossing from the table and then rotate the satellite overlay to position the satellite subtrack over the selected equator crossing longitude. The predictor now represents the satellite ground track for the selected orbit. Subsequent and previous orbit depictions can be obtained by using the "next pass" index.

For subsequent orbits... mark or note the longitude beneath the "next pass" index and rotate the overlay clockwise to position the satellite subtrack over the new equator crossing longitude. For previous orbits, rotate the overlay counterclockwise to position the "next pass" index over the present equator crossing. The ground track for the previous pass will be to the right of the original orbit, and the subtrack for subsequent orbits will be to the left of the original equator crossing. One can do this all the way around the wheel without sacrificing a great deal of accuracy.

So far we have just looked at positioning the overlay to obtain a depiction of a satellite ground track for a selected orbit number and then ground tracks for later and earlier orbits. Now let's examine what information we can get from the depiction. When the subtrack intersects a LUT coverage circle, the LUT will receive signals from the satellite for the time period that the subtrack is within a coverage circle. An ELT/EPIRB is visible to the satellite when it lies within the antenna coverage limits (red lines). Mutual visibility occurs when an ELT/EPIRB is within satellite's field-of-view at the same time that the satellite subtrack lies within a LUT coverage circle. From this, we can see for a selected orbit if a spacecraft will be seen by a LUT and approximately where ELTs/EPIRBs must be located to be processed by a LUT. The predictor can be used for more sophisticated problems such as approximate AOS and LOS at a LUT, next time an ELT/EPIRB will be in mutual visibility, and when/if an area of interest will be seen by a satellite and a LUT.

To determine approximate AOS and LOS at a LUT, refer to the equator crossing table and note the time (in zulu) that the satellite will cross the equator. Next, position the overlay as previously discussed and count the yellow lines from the equator to the point at which the subtrack intersects the LUT coverage circle. Add the number of minutes to the time of equator crossing and you have the approximate AOS. Continue counting the yellow lines until the subtrack exists the LUT circle and add them to the AOS time and you have the approximate LOS as well as the approximate duration of the pass. (See example 1.)

Finding out when the next time an ELT/EPIRB will be in mutual visibility of the satellite and LUT is simply a combination of the above two tasks. From the original orbit, move the overlay clockwise orbit-by-orbit using the "next pass" index until mutual visibility is established and then reference the equator crossing table for the time of equator crossing using the longitude now under the ascending node. By counting the minutes since equator crossing and adding them to the time of equator crossing, one comes up with the approximate time the ELT/EPIRB will next be in mutual visibility. (See example 2.)

Using the orbit predictor to determine when and if an area of interest will be reviewed by the satellite and the LUT is a bit more complicated. First, locate the area of interest on the base map, refer to the equator crossing table for a longitude within plus or minus 20 degrees that has an equator crossing time within the appropriate time frame, position the overlay at the selected longitude and determine if mutual visibility will exist. (See example 3.) If there is not mutual visibility on that orbit, rotate the overlay using the "next page" index until you determine that mutual visibility exists or that the interest area is too distant from a LUT or the satellite subtrack for mutual visibility to exist.

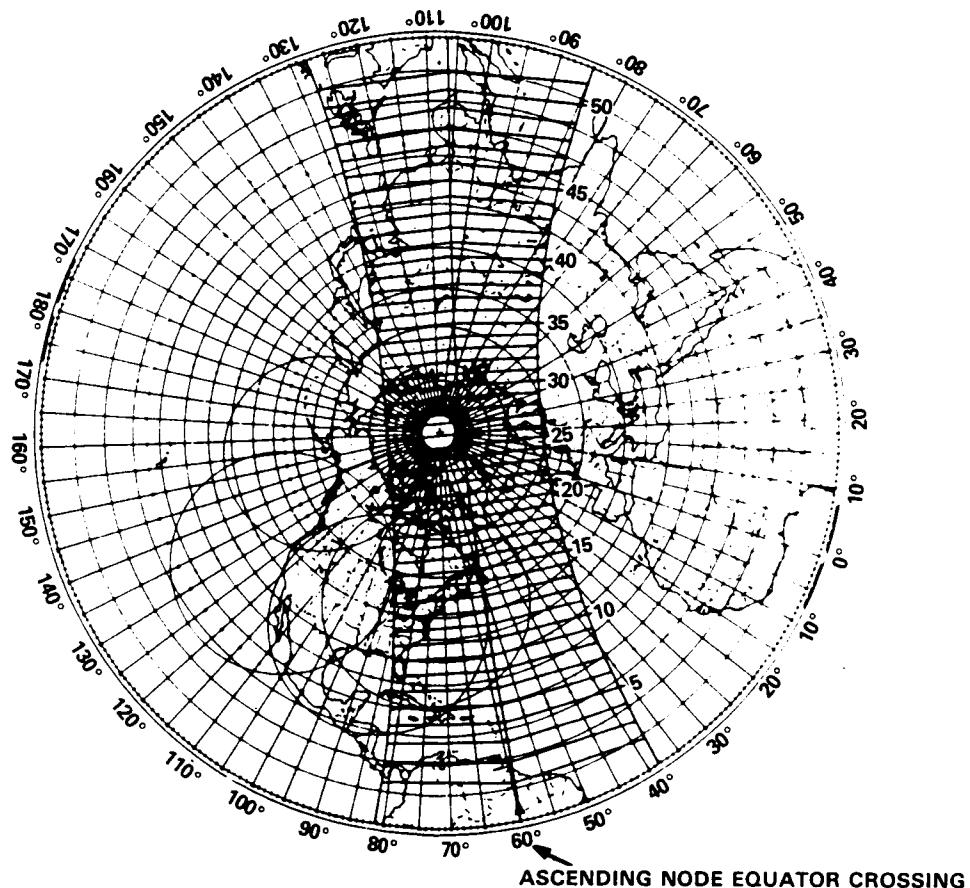
EXAMPLE NO. 1

- Refer to the equator crossing table for time and longitude of the desired equator crossing:

TIME (GMT)	E. LONGITUDE	ORBIT
day hr mn sc	deg.dg	
292 9 32 4	19.94	1523
292 22 17 26	-6.52	1524
292 13 2 48	-32.99	1525
292 14 48 9	-59.45	1526<
292 16 33 31	-85.92	1527
292 18 18 52	-112.38	1528

From the equator crossing table, select orbit number 1526. The zulu date/time group for the equator crossing is 292 (19 Oct) 1448:09. The longitude of the equator crossing is 59.45 W.

- Position the overlay so the subtrack coincides with the northbound equator crossing and then count the number of yellow lines (minutes) from the equator crossing to the point where the subtrack enters a LUT circle (AOS) and exits a LUT circle (LOS).



Position the overlay so the ascending node is set at 59.45 W. Now count the number of yellow lines from the equator until the subtrack intersects a LUT circle. In this case the subtrack intersects a LUT circle 5 minutes after crossing the equator, the subtrack lies within the LUT circle for 14 minutes before exiting. Adding these times to the equator crossing time of 1448:09 yields an approximate AOS of 1453:09 and an approximate LOS of 1504:09.

EXAMPLE NO. 2

1. From the original orbit move the overlay clockwise using the "next pass" index until mutual visibility is established.

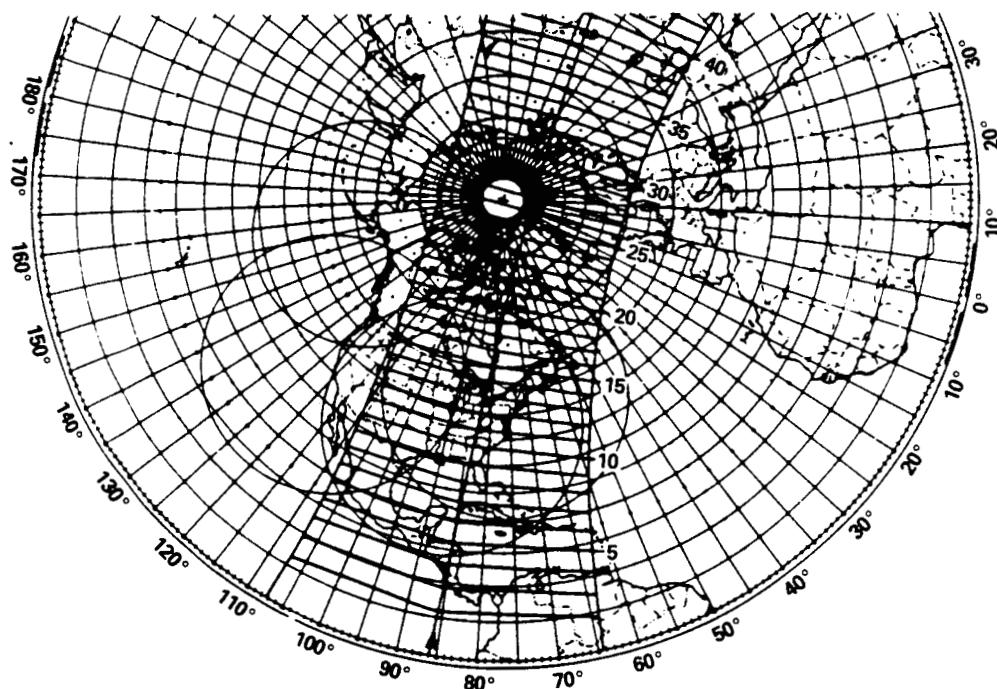


Figure 2

Assume there is an ELT located at 40 00.0 N. and 080 00.0 W. The original orbit (1526) is within mutual visibility, and we want to know the next time the ELT will be in mutual visibility. The "next pass" index is at approximately 087 W. Rotate the overlay until the subtrack coincides with 087 W.

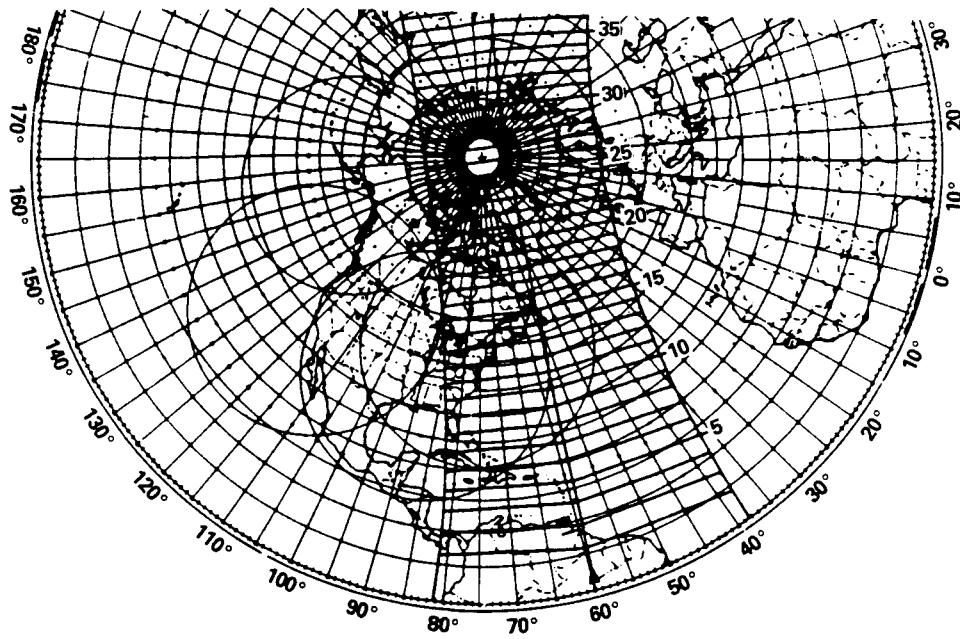


Figure 3

By looking at the subtrack and LUT circle, we see that the satellite will see the ELT and LUT on the next orbit (#1528). Adding the times to the equator crossing time (1633:31) gives us an approximate AOS of 1637, a 16 minute pass with an approximate LOS of 1653.

EXAMPLE NO. 3

SCENARIO: Assume you are interested in using the SARSAT system to locate the possible wreckage of a light aircraft that departed Charleston, South Carolina, enroute to Roanoke, Virginia. The aircraft departed Charleston at 1300Z on 19 October 1982 and never reached Roanoke.

1. Locate the route of flight or suspected ELT/EPIRB position on the base map and note the approximate longitude.

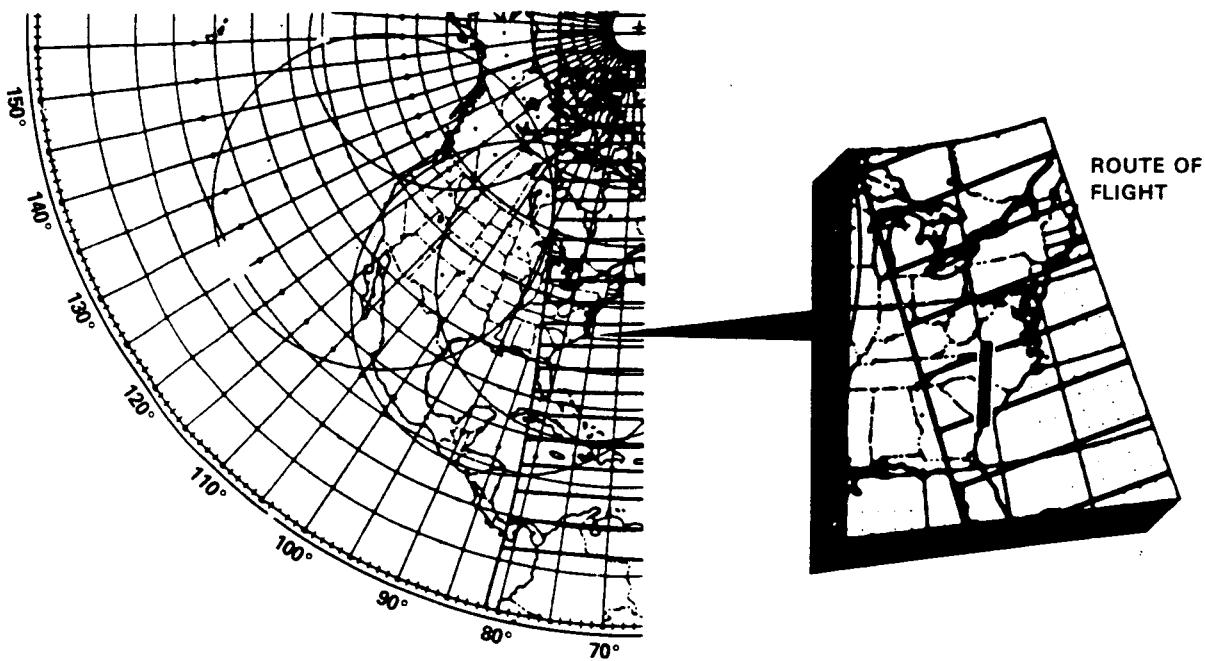


Figure 4

The Route of flight is marked in the expanded box: approximate longitude is 080 W.

2. Refer to the equator crossing table and select an orbit within 20 degrees of the approximate longitude and within the appropriate time frame.

TIME (GMT)	E. LONGITUDE	ORBIT
day hr mn sc	deg.dg	
292 11 17 26	-6.52	1524
292 13 2 48	-32.99	1525
292 14 48 9	-59.45	1526
292 16 33 31	-85.92	1527
292 18 88 52	-112.38	1528

From the table there are two orbits that are within plus or minus 20 degrees of the route of flight; 1526 and 1527. Orbit #1526 is the earliest (1448Z) and is within our time frame.

3. Position the overlay at the selected longitude and determine if mutual visibility exists or will exist.

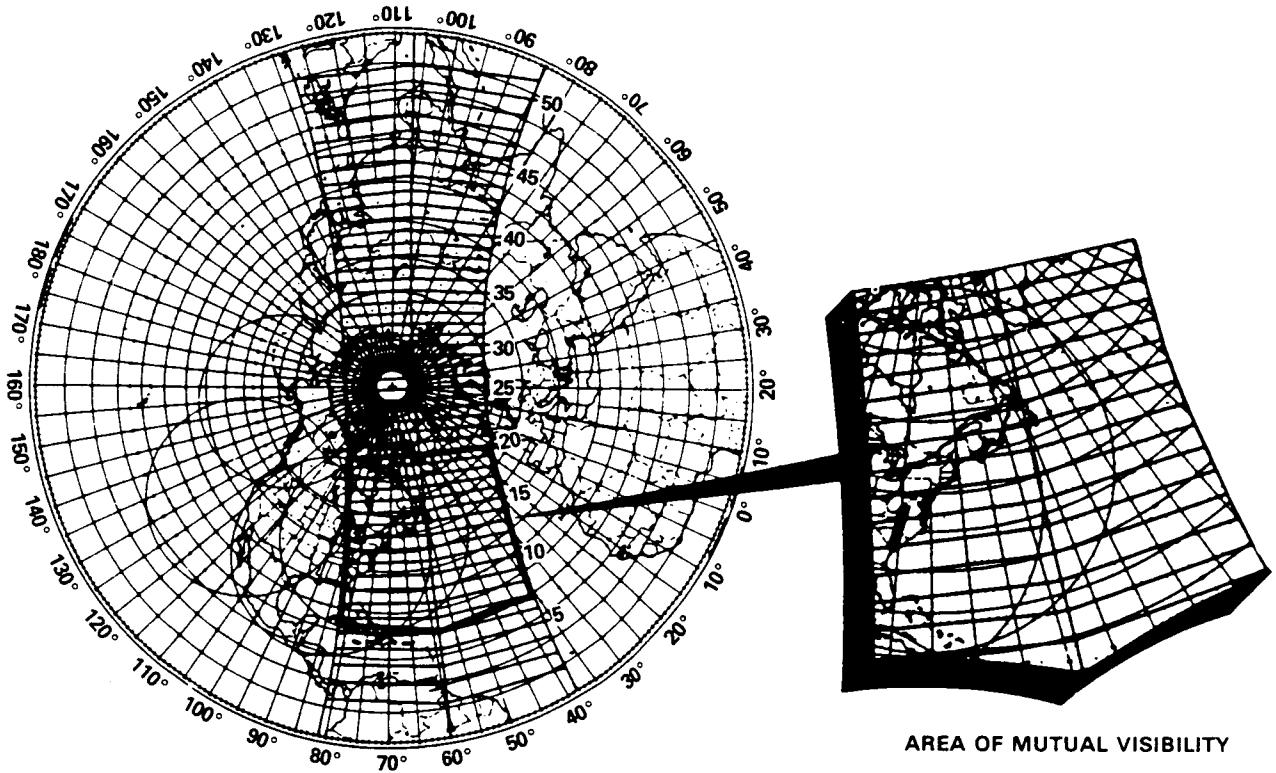


Figure 5

Remember, mutual visibility exists when the ELT/EPIRB is within the satellite antenna swath and the satellite subtrack is within a LUT circle. We can see that the ground track is within the LUT circle. Also, the route of flight we are interested in is within the antenna swath at the same time the ground track is within the LUT circle. Therefore, mutual visibility exists on orbit #1526.

CALENDAR 1990

DAYS OF WEEK AND DAYS OF THE YEAR

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1 MO	1 TH	32 TH	60 SU	91 TU	121 FR	152 SU	182 WE	213 SA	244 MO	274 TH	305 SA
2 TU	2 FR	33 FR	61 MO	92 WE	122 SA	153 MO	183 TH	214 SU	245 TU	275 FR	306 SU
3 WE	3 SA	34 SA	62 TU	93 TH	123 SU	154 TU	184 FR	215 MO	246 WE	276 SA	307 MO
4 TH	4 SU	35 SU	63 WE	94 FR	124 MO	155 WE	185 SA	216 TU	247 TH	277 SU	308 TU
5 FR	5 MO	36 MO	64 TH	95 SA	125 TU	156 TH	186 SU	217 WE	248 FR	278 MO	309 WE
6 SA	6 TU	37 TU	65 FR	96 SU	126 WE	157 FR	187 MO	218 TH	249 SA	279 TU	310 TH
7 SU	7 WE	38 WE	66 SA	97 MO	127 TH	158 SA	188 TU	219 FR	250 SU	280 WE	311 FR
8 MO	8 TH	39 TH	67 SU	98 TU	128 FR	159 SU	189 WE	220 SA	251 MO	281 TH	312 SA
9 TU	9 FR	40 FR	68 MO	99 WE	129 SA	160 MO	190 TH	221 SU	252 TU	282 FR	313 SU
10 WE	10 SA	41 SA	69 TU	100 TH	130 SU	161 TU	191 FR	222 MO	253 WE	283 SA	314 MO
11 TH	11 SU	42 SU	70 WE	101 FR	131 MO	162 WE	192 SA	223 TU	254 TH	284 SU	315 TU
12 FR	12 MO	43 MO	71 TH	102 SA	132 TU	163 TH	193 SU	224 WE	255 FR	285 MO	316 WE
13 SA	13 TU	44 TU	72 FR	103 SU	133 WE	164 FR	194 MO	225 TH	256 SA	286 TU	317 TH
14 SU	14 WE	45 WE	73 SA	104 MO	134 TH	165 SA	195 TU	226 FR	257 SU	287 WE	318 FR
15 MO	15 TH	46 TH	74 SU	105 TU	135 FR	166 SU	196 WE	227 SA	258 MO	288 TH	319 SA
16 TU	16 FR	47 FR	75 MO	106 WE	136 SA	167 MO	197 TH	228 SU	259 TU	289 FR	320 SU
17 WE	17 SA	48 SA	76 TU	107 TH	137 SU	168 TU	198 FR	229 MO	260 WE	290 SA	321 MO
18 TH	18 SU	49 SU	77 WE	108 FR	138 MO	169 WE	199 SA	230 TU	261 TH	291 SU	322 TU
19 FR	19 MO	50 MO	78 TH	109 SA	139 TU	170 TH	200 SU	231 WE	262 FR	292 MO	323 WE
20 SA	20 TU	51 TU	79 FR	110 SU	140 WE	171 FR	201 MO	232 TH	263 SA	293 TU	324 TH
21 SU	21 WE	52 WE	80 SA	111 MO	141 TH	172 SA	202 TU	233 FR	264 SU	294 WE	325 FR
22 MO	22 TH	53 TH	81 SU	112 TU	142 FR	173 SU	203 WE	234 SA	265 MO	295 TH	326 SA
23 TU	23 FR	54 FR	82 MO	113 WE	143 SA	174 MO	204 TH	235 SU	266 TU	296 FR	327 SU
24 WE	24 SA	55 SA	83 TU	114 TH	144 SU	175 TU	205 FR	236 MO	267 WE	297 SA	328 MO
25 TH	25 SU	56 SU	84 WE	115 FR	145 MO	176 WE	206 SA	237 TU	268 TH	298 SU	329 TU
26 FR	26 MO	57 MO	85 TH	116 SA	146 TU	177 TH	207 SU	238 WE	269 FR	299 MO	330 WE
27 SA	27 TU	58 TU	86 FR	117 SU	147 WE	178 FR	208 MO	239 TH	270 SA	300 TU	331 TH
28 SU	28 WE	59 WE	87 SA	118 MO	148 TH	179 SA	209 TU	240 FR	271 SU	301 WE	332 FR
29 MO	29 TH	58 SU	88 SU	119 TU	149 FR	180 SU	210 WE	241 SA	272 MO	302 TH	333 SA
30 TU	30 FR	59 MO	120 WE	150 SA	181 MO	211 TH	242 SU	273 TU	303 FR	334 SU	364
31 WE	31 SA	90		151			212	243		304	MO 365

CALENDAR 1991

DAYS OF WEEK AND DAYS OF THE YEAR

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	TU	1	FR	32	FR	60	MO	91	WE	121	SA	152
2	WE	2	SA	33	SA	61	TU	92	TH	122	SU	153
3	TH	3	SU	34	SU	62	WE	93	FR	123	MO	154
4	FR	4	MO	35	MO	63	TH	94	SA	124	TU	155
5	SA	5	TU	36	TU	64	FR	95	SU	125	WE	156
6	SU	6	WE	37	WE	65	SA	96	MO	126	TH	157
7	MO	7	TH	38	TH	66	SU	97	TU	127	FR	158
8	TU	8	FR	39	FR	67	MO	98	WE	128	SA	159
9	WE	9	SA	40	SA	68	TU	99	TH	129	SU	160
10	TH	10	SU	41	SU	69	WE	100	FR	130	MO	161
11	FR	11	MO	42	MO	70	TH	101	SA	131	TU	162
12	SA	12	TU	43	TU	71	FR	102	SU	132	WE	163
13	SU	13	WE	44	WE	72	SA	103	MO	133	TH	164
14	MO	14	TH	45	TH	73	SU	104	TU	134	FR	165
15	TU	15	FR	46	FR	74	MO	105	WE	135	SA	166
16	WE	16	SA	47	SA	75	TU	106	TH	136	SU	167
17	TH	17	SU	48	SU	76	WE	107	FR	137	MO	168
18	FR	18	MO	49	MO	77	TH	108	SA	138	TU	169
19	SA	19	TU	50	TU	78	FR	109	SU	139	WE	170
20	SU	20	WE	51	WE	79	SA	110	MO	140	TH	171
21	MO	21	TH	52	TH	80	SU	111	TU	141	FR	172
22	TU	22	FR	53	FR	81	MO	112	WE	142	SA	173
23	WE	23	SA	54	SA	82	TU	113	TH	143	SU	174
24	TH	24	SU	55	SU	83	WE	114	FR	144	MO	175
25	FR	25	MO	56	MO	84	TH	115	SA	145	TU	176
26	SA	26	TU	57	TU	85	FR	116	SU	146	WE	177
27	SU	27	WE	58	WE	86	SA	117	MO	147	TH	178
28	MO	28	TH	59	TH	87	SU	118	TU	148	FR	179
29	TU	29			FR	88	MO	119	WE	149	SA	180
30	WE	30			SA	89	TU	120	TH	150	SU	181
31	TH	31			SU	90			FR	151		
								WE	212	SA	243	
									TH	304		TU
											365	

SATELLITE C4: ORBITAL ELEMENTS IN CLASSICAL SPACE

DETERMINATION:	1752	REVOLUTION:	5791	EPOCH:	1990 AUG 30	10:06:43
SM AXIS	: 7.35567615D+03 km			ECCENTRICITY	: 0.30216886D-02	
INCLINATION	: 8.29547770D+01 deg			LONGITUDE	: 2.30267516D+02 deg	
PERIGEE	: 1.93194631D+02 deg			TRUE ANOMALY	: 2.79412769D+02 deg	
R/T 121.5:ON		R/T 406:ON		GLOBAL 406:ON		

SATELLITE C5: ORBITAL ELEMENTS IN CLASSICAL SPACE

DETERMINATION:	9016	REVOLUTION:	2512	EPOCH:	1990 AUG 29	20:16:03
SM AXIS	: 7.35848618D+03 km			ECCENTRICITY	: 0.40751516D-02	
INCLINATION	: 8.29547704D+01 deg			LONGITUDE	: 5.59059937D+00 deg	
PERIGEE	: 1.30306097D+02 deg			TRUE ANOMALY	: 3.48543488D+02 deg	
R/T 121.5:ON		R/T 406:ON		GLOBAL 406:ON		

SATELLITE S2: ORBITAL ELEMENTS IN CLASSICAL SPACE

DETERMINATION:	10340	REVOLUTION:	29452	EPOCH:	1990 AUG 30	20:29:56
SM AXIS	: 7.23072757D+03 km			ECCENTRICITY	: 0.24895316D-02	
INCLINATION	: 9.91666540D+01 deg			LONGITUDE	: 2.44434032D+02 deg	
PERIGEE	: 1.29271644D+02 deg			TRUE ANOMALY	: 2.58241696D+02 deg	
R/T 121.5:ON		R/T 406:ON		GLOBAL 406:OFF		

SATELLITE S3: ORBITAL ELEMENTS IN CLASSICAL SPACE

DETERMINATION:	6639	REVOLUTION:	20519	EPOCH:	1990 AUG 30	14:01:47
SM AXIS	: 7.18180626D+03 km			ECCENTRICITY	: 0.19206836D-02	
INCLINATION	: 9.85962940D+01 deg			LONGITUDE	: 2.68863336D+02 deg	
PERIGEE	: 3.54602090D+01 deg			TRUE ANOMALY	: 7.71453954D+01 deg	
R/T 121.5:ON		R/T 406:OFF		GLOBAL 406:OFF		

SATELLITE S4: ORBITAL ELEMENTS IN CLASSICAL SPACE

DETERMINATION:	3599	REVOLUTION:	9949	EPOCH:	1990 AUG 30	19:17:56
SM AXIS	: 7.23725458D+03 km			ECCENTRICITY	: 0.25938876D-02	
INCLINATION	: 9.89821702D+01 deg			LONGITUDE	: 1.91214250D+02 deg	
PERIGEE	: 7.54342480D+01 deg			TRUE ANOMALY	: 2.96010295D+02 deg	
R/T 121.5:ON		R/T 406:ON		GLOBAL 406:ON		

SATELLITE C4
Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

SATELLITE C5
Ascending Node Predictions
Predicting for 185 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

286 01:09:01	-65.57	3119
286 02:53:56	-91.93	3120
286 04:38:51	-118.29	3121
286 06:23:46	-144.64	3122
286 08:08:42	-171.00	3123
286 09:53:37	162.65	3124
286 11:38:32	136.29	3125
286 13:23:28	109.94	3126
286 15:08:23	83.58	3127
286 16:53:18	57.22	3128
286 18:38:13	30.87	3129
286 20:23:09	4.51	3130
286 22:08:04	-21.84	3131
286 23:52:59	-48.20	3132

287 01:37:54	-74.56	3133
287 03:22:50	-100.91	3134
287 05:07:45	-127.27	3135
287 06:52:40	-153.62	3136
287 08:37:36	-179.98	3137
287 10:22:31	153.66	3138
287 12:07:26	127.31	3139
287 13:52:21	100.95	3140
287 15:37:17	74.60	3141
287 17:22:12	48.24	3142
287 19:07:07	21.88	3143
287 20:52:03	-4.47	3144
287 22:36:58	-30.83	3145

288 01:41:19	147.95	6417
288 03:26:12	121.60	6418
288 05:11:06	95.25	6419
288 06:55:59	68.90	6420
288 08:40:53	42.55	6421
288 10:25:46	16.20	6422
288 12:10:40	-10.15	6423
288 13:55:33	-36.50	6424
288 15:40:27	-62.84	6425
288 17:25:20	-89.19	6426
288 19:10:14	-115.54	6427
288 20:55:07	-141.89	6428
288 22:40:01	-168.24	6429

288 00:21:53	-57.18	3146
288 02:06:48	-83.54	3147
288 03:51:44	-109.89	3148
288 05:36:39	-136.25	3149
288 07:21:34	-162.61	3150
288 09:06:29	171.04	3151
288 10:51:25	144.68	3152
288 12:36:20	118.33	3153
288 14:21:15	91.97	3154
288 16:06:11	65.62	3155
288 17:51:06	39.26	3156
288 19:36:01	12.90	3157
288 21:20:56	-13.45	3158
288 23:05:52	-39.81	3159

289 00:24:54	165.41	6430
289 02:09:48	139.07	6431
289 03:54:41	112.72	6432
289 05:39:35	86.37	6433
289 07:24:28	60.02	6434
289 09:09:22	33.67	6435
289 10:54:15	7.32	6436
289 12:39:09	-19.02	6437
289 14:24:02	-45.37	6438
289 16:08:56	-71.72	6439
289 17:53:49	-98.07	6440
289 19:38:43	-124.42	6441
289 21:23:36	-150.77	6442
289 23:08:30	-177.12	6443

289 00:50:47	-66.16	3160
289 02:35:42	-92.52	3161
289 04:20:38	-118.87	3162
289 06:05:33	-145.23	3163
289 07:50:28	-171.59	3164
289 09:35:23	162.06	3165
289 11:20:19	135.70	3166
289 13:05:14	109.35	3167
289 14:50:09	82.99	3168
289 16:35:04	56.63	3169
289 18:20:00	30.28	3170
289 20:04:55	3.92	3171
289 21:49:50	-22.94	3172
289 23:34:46	-48.79	3173

SATELLITE S2
Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

SATELLITE S3
Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

SATELLITE S4
Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

287 01:05:03 -108.94 30076
 287 02:47:02 -134.43 30077
 287 04:29:02 -159.93 30078
 287 06:11:01 174.58 30079
 287 07:53:01 149.08 30080
 287 09:35:00 123.59 30081
 287 11:17:00 98.09 30082
 287 12:58:59 72.60 30083
 287 14:40:59 47.10 30084
 287 16:22:58 21.61 30085
 287 18:04:58 -3.89 30086
 287 19:46:57 -29.38 30087
 287 21:28:57 -54.88 30088
 287 23:10:56 -80.37 30089

287 01:11:30 -87.92 21150
 287 02:52:42 -113.22 21151
 287 04:33:54 -138.52 21152
 287 06:15:06 -163.82 21153
 287 07:56:19 170.87 21154
 287 09:37:31 145.57 21155
 287 11:18:43 120.27 21156
 287 12:59:55 94.97 21157
 287 14:41:07 69.67 21158
 287 16:22:19 44.38 21159
 287 18:03:32 19.06 21160
 287 19:44:44 -6.24 21161
 287 21:25:56 -31.54 21162
 287 23:07:08 -56.83 21163

288 00:52:56 -105.87 30090
 288 02:34:55 -131.36 30091
 288 04:16:55 -156.87 30092
 288 05:58:54 177.65 30093
 288 07:40:54 152.14 30094
 288 09:22:53 126.66 30095
 288 11:04:53 101.15 30096
 288 12:46:52 75.67 30097
 288 14:28:52 50.16 30098
 288 16:10:51 24.67 30099
 288 17:52:51 -83 30100
 288 19:34:50 -26.32 30101
 288 21:16:50 -51.82 30102
 288 22:58:49 -77.31 30103

288 00:48:20 -82.13 21164
 288 02:29:32 -107.43 21165
 288 04:10:44 -132.73 21166
 288 05:51:57 -158.04 21167
 288 07:33:09 176.66 21168
 288 09:14:21 151.36 21169
 288 10:55:33 126.06 21170
 288 12:36:45 100.76 21171
 288 14:17:57 75.46 21172
 288 15:59:10 50.15 21173
 288 17:40:22 24.85 21174
 288 19:21:34 -.45 21175
 288 21:02:46 -25.75 21176
 288 22:43:58 -51.05 21177

288 00:31:05 -154.57 10587
 288 02:13:08 179.93 10588
 288 03:55:12 154.41 10589
 288 05:37:16 128.89 10590
 288 07:19:20 103.39 10591
 288 09:01:24 77.86 10592
 288 10:43:27 52.35 10593
 288 12:25:31 26.84 10594
 288 14:07:35 1.32 10595
 288 15:49:39 -24.20 10596
 288 17:31:43 -49.72 10597
 288 19:13:46 -75.22 10598
 288 20:55:50 -100.74 10599
 288 22:37:54 -126.26 10600

289 00:40:49 -102.81 30104
 289 02:22:48 -128.30 30105
 289 04:04:48 -153.80 30106
 289 05:46:47 -179.29 30107
 289 07:28:47 155.21 30108
 289 09:10:46 129.72 30109
 289 10:52:46 104.22 30110
 289 12:34:45 78.73 30111
 289 14:16:45 53.23 30112
 289 15:58:44 27.74 30113
 289 17:40:44 2.24 30114
 289 19:22:43 -23.25 30115
 289 21:04:43 -48.75 30116
 289 22:46:42 -74.24 30117

289 00:25:10 -76.35 21178
 289 02:06:23 -101.66 21179
 289 03:47:35 -126.96 21180
 289 05:28:47 -152.26 21181
 289 07:09:59 -177.56 21182
 289 08:51:11 157.14 21183
 289 10:32:23 131.84 21184
 289 12:13:35 106.54 21185
 289 13:54:48 81.23 21186
 289 15:36:00 55.93 21187
 289 17:17:12 30.63 21188
 289 18:58:24 5.33 21189
 289 20:39:36 -19.97 21190
 289 22:20:48 -45.27 21191

289 00:19:58 -151.77 10601
 289 02:02:02 -177.29 10602
 289 03:44:05 157.21 10603
 289 05:26:09 131.69 10604
 289 07:08:13 106.17 10605
 289 08:50:17 80.65 10606
 289 10:32:20 55.15 10607
 289 12:14:24 29.63 10608
 289 13:56:28 4.11 10609
 289 15:38:32 -21.40 10610
 289 17:20:36 -46.92 10611
 289 19:02:39 -72.42 10612
 289 20:44:43 -97.94 10613
 289 22:26:47 -123.46 10614

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

290 00:53:23	156.53	6444
290 02:38:17	130.19	6445
290 04:23:11	103.84	6446
290 06:08:04	77.49	6447
290 07:52:58	51.14	6448
290 09:37:51	24.79	6449
290 11:22:45	-1.55	6450
290 13:07:38	-27.90	6451
290 14:52:32	-54.25	6452
290 16:37:25	-80.60	6453
290 18:22:19	-106.95	6454
290 20:07:12	-133.30	6455
290 21:52:06	-159.64	6456
290 23:36:59	174.01	6457

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

290 01:19:41	-75.15	3174
290 03:04:36	-101.50	3175
290 04:49:31	-127.86	3176
290 06:34:27	-154.21	3177
290 08:19:22	179.43	3178
290 10:04:17	153.07	3179
290 11:49:13	126.72	3180
290 13:34:08	100.36	3181
290 15:19:03	74.01	3182
290 17:03:58	47.65	3183
290 18:48:54	21.30	3184
290 20:33:49	-5.06	3185
290 22:18:44	-31.42	3186

291 01:21:53	147.66	6458
291 03:06:46	121.31	6459
291 04:51:40	94.96	6460
291 06:36:33	68.61	6461
291 08:21:27	42.26	6462
291 10:06:20	15.91	6463
291 11:51:14	-10.43	6464
291 13:36:07	-36.78	6465
291 15:21:01	-63.13	6466
291 17:05:54	-89.48	6467
291 18:50:48	-115.83	6468
291 20:35:41	-142.18	6469
291 22:20:35	-168.52	6470

291 00:03:39	-57.77	3187
291 01:48:35	-84.13	3188
291 03:33:30	-110.48	3189
291 05:18:25	-136.84	3190
291 07:03:21	-163.19	3191
291 08:48:16	170.45	3192
291 10:33:11	144.09	3193
291 12:18:06	117.74	3194
291 14:03:02	91.38	3195
291 15:47:57	65.03	3196
291 17:32:52	38.67	3197
291 19:17:48	12.32	3198
291 21:02:43	-14.04	3199
291 22:47:38	-40.40	3200

292 00:05:28	165.13	6471
292 01:50:22	138.78	6472
292 03:35:15	112.43	6473
292 05:20:09	86.08	6474
292 07:05:02	59.73	6475
292 08:49:56	33.39	6476
292 10:34:49	7.04	6477
292 12:19:43	-19.31	6478
292 14:04:36	-45.66	6479
292 15:49:30	-72.01	6480
292 17:34:23	-98.36	6481
292 19:19:17	-124.71	6482
292 21:04:10	-151.06	6483
292 22:49:04	-177.40	6484

292 00:32:33	-66.75	3201
292 02:17:29	-93.11	3202
292 04:02:24	-119.46	3203
292 05:47:19	-145.82	3204
292 07:32:14	-172.18	3205
292 09:17:10	161.47	3206
292 11:02:05	135.11	3207
292 12:47:00	108.75	3208
292 14:31:56	82.40	3209
292 16:16:51	56.04	3210
292 18:01:46	29.69	3211
292 19:46:41	3.33	3212
292 21:31:37	-23.02	3213
292 23:16:32	-49.38	3214

293 00:33:57	156.25	6485
293 02:18:51	129.90	6486
293 04:03:44	103.55	6487
293 05:48:38	77.20	6488
293 07:33:31	50.85	6489
293 09:18:25	24.51	6490
293 11:03:18	-1.84	6491
293 12:48:12	-28.19	6492
293 14:33:05	-54.54	6493
293 16:17:59	-80.89	6494
293 18:02:52	-107.24	6495
293 19:47:46	-133.58	6496
293 21:32:39	-159.93	6497
293 23:17:33	173.72	6498

293 01:01:27	-75.74	3215
293 02:46:23	-102.09	3216
293 04:31:18	-128.45	3217
293 06:16:13	-154.80	3218
293 08:01:08	178.84	3219
293 09:46:04	152.49	3220
293 11:30:59	126.13	3221
293 13:15:54	99.77	3222
293 15:00:49	73.42	3223
293 16:45:45	47.06	3224
293 18:30:40	20.71	3225
293 20:15:35	-5.65	3226
293 22:00:31	-32.00	3227
293 23:45:26	-58.36	3228

West longitude is negative (-)

SATELLITE S2**Ascending Node Predictions**

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

290 00:28:42	-99.74	30118
290 02:10:41	-125.23	30119
290 03:52:41	-150.73	30120
290 05:34:40	-176.22	30121
290 07:16:40	158.28	30122
290 08:58:39	132.79	30123
290 10:40:39	107.29	30124
290 12:22:38	81.80	30125
290 14:04:38	56.30	30126
290 15:46:37	30.81	30127
290 17:28:37	5.31	30128
290 19:10:36	-20.18	30129
290 20:52:36	-45.68	30130
290 22:34:35	-71.17	30131

SATELLITE S3**Ascending Node Predictions**

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

290 00:02:01	-70.58	21192
290 01:43:13	-95.88	21193
290 03:24:25	-121.18	21194
290 05:05:37	-146.48	21195
290 06:46:49	-171.77	21196
290 08:28:01	162.93	21197
290 10:09:13	137.63	21198
290 11:50:26	112.31	21199
290 13:31:38	87.02	21200
290 15:12:50	61.72	21201
290 16:54:02	36.42	21202
290 18:35:14	11.12	21203
290 20:16:26	-14.18	21204
290 21:57:39	-39.49	21205
290 23:38:51	-64.79	21206

SATELLITE S4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

290 00:08:51	-148.98	10615
290 01:50:55	-174.49	10616
290 03:32:58	160.00	10617
290 05:15:02	134.48	10618
290 06:57:06	108.97	10619
290 08:39:10	83.45	10620
290 10:21:14	57.93	10621
290 12:03:17	32.43	10622
290 13:45:21	6.91	10623
290 15:27:25	-18.61	10624
290 17:09:29	-44.12	10625
290 18:51:33	-69.64	10626
290 20:33:36	-95.15	10627
290 22:15:40	-120.66	10628
290 23:57:44	-146.18	10629

291 00:16:35	-96.68	30132
291 01:58:34	-122.16	30133
291 03:40:34	-147.67	30134
291 05:22:33	-173.15	30135
291 07:04:33	161.34	30136
291 08:46:32	135.86	30137
291 10:28:32	110.35	30138
291 12:10:31	84.86	30139
291 13:52:31	59.36	30140
291 15:34:30	33.87	30141
291 17:16:30	8.37	30142
291 18:58:29	-17.12	30143
291 20:40:29	-42.62	30144
291 22:22:28	-68.11	30145

291 01:20:03	-90.09	21207
291 03:01:15	-115.39	21208
291 04:42:27	-140.69	21209
291 06:23:39	-165.99	21210
291 08:04:52	168.70	21211
291 09:46:04	143.40	21212
291 11:27:16	118.10	21213
291 13:08:28	92.80	21214
291 14:49:40	67.50	21215
291 16:30:52	42.20	21216
291 18:12:04	16.90	21217
291 19:53:17	-8.41	21218
291 21:34:29	-33.71	21219
291 23:15:41	-59.01	21220

291 01:39:48	-171.70	10630
291 03:21:52	162.78	10631
291 05:03:55	137.28	10632
291 06:45:59	111.76	10633
291 08:28:03	86.25	10634
291 10:10:07	60.73	10635
291 11:52:11	35.21	10636
291 13:34:14	9.71	10637
291 15:16:18	-15.81	10638
291 16:58:22	-41.33	10639
291 18:40:26	-66.85	10640
291 20:22:30	-92.36	10641
291 22:04:33	-117.87	10642
291 23:46:37	-143.38	10643

292 00:04:28	-93.61	30146
292 01:46:27	-119.10	30147
292 03:28:27	-144.60	30148
292 05:10:26	-170.09	30149
292 06:52:26	164.41	30150
292 08:34:25	138.92	30151
292 10:16:25	113.42	30152
292 11:58:24	87.93	30153
292 13:40:24	62.43	30154
292 15:22:23	36.94	30155
292 17:04:23	11.44	30156
292 18:46:22	-14.05	30157
292 20:28:22	-39.55	30158
292 22:10:21	-65.04	30159
292 23:52:21	-90.54	30160

292 00:56:53	-84.31	21221
292 02:38:05	-109.61	21222
292 04:19:17	-134.91	21223
292 06:00:30	-160.22	21224
292 07:41:42	174.48	21225
292 09:22:54	149.18	21226
292 11:04:06	123.88	21227
292 12:45:18	98.59	21228
292 14:26:30	73.29	21229
292 16:07:43	47.97	21230
292 17:48:55	22.67	21231
292 19:30:07	-2.62	21232
292 21:11:19	-27.92	21233
292 22:52:31	-53.22	21234

292 01:28:41	-168.90	10644
292 03:10:45	165.58	10645
292 04:52:48	140.08	10646
292 06:34:52	114.56	10647
292 08:16:56	89.04	10648
292 09:59:00	63.52	10649
292 11:41:04	38.01	10650
292 13:23:07	12.50	10651
292 15:05:11	-13.01	10652
292 16:47:15	-38.53	10653
292 18:29:19	-64.05	10654
292 20:11:23	-89.57	10655
292 21:53:26	-115.07	10656
292 23:35:30	-140.59	10657

293 01:34:20	-116.03	30161
293 03:16:20	-141.53	30162
293 04:58:19	-167.02	30163
293 06:40:19	167.48	30164
293 08:22:18	141.99	30165
293 10:04:18	116.49	30166
293 11:46:17	91.00	30167
293 13:28:17	65.50	30168
293 15:10:16	40.01	30169
293 16:52:16	14.50	30170
293 18:34:15	-10.98	30171
293 20:16:15	-36.49	30172
293 21:58:14	-61.97	30173
293 23:40:14	-87.48	30174

293 00:33:43	-78.52	21235
293 02:14:55	-103.82	21236
293 03:56:08	-129.13	21237
293 05:37:20	-154.43	21238
293 07:18:32	-179.73	21239
293 08:59:44	154.97	21240
293 10:40:56	129.67	21241
293 12:22:08	104.37	21242
293 14:03:21	79.06	21243
293 15:44:33	53.76	21244
293 17:25:45	28.46	21245
293 19:06:57	3.16	21246
293 20:48:09	-22.14	21247
293 22:29:21	-47.44	21248

293 01:17:34	-166.11	10658
293 02:59:38	168.38	10659
293 04:41:42	142.86	10660
293 06:23:45	117.36	10661
293 08:05:49	91.84	10662
293 09:47:53	66.32	10663
293 11:29:57	40.80	10664
293 13:12:01	15.29	10665
293 14:54:04	-10.22	10666
293 16:36:08	-35.74	10667
293 18:18:12	-61.25	10668
293 20:00:16	-86.77	10669
293 21:42:20	-112.29	10670
293 23:24:23	-137.79	10671

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

294 01:02:27	147.37	6499
294 02:47:20	121.02	6500
294 04:32:14	94.67	6501
294 06:17:07	68.32	6502
294 08:02:01	41.98	6503
294 09:46:54	15.63	6504
294 11:31:48	-10.72	6505
294 13:16:41	-37.07	6506
294 15:01:35	-63.42	6507
294 16:46:28	-89.77	6508
294 18:31:22	-116.11	6509
294 20:16:15	-142.46	6510
294 22:01:09	-168.81	6511
294 23:46:02	164.84	6512

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

294 01:30:21	-84.72	3229
294 03:15:16	-111.07	3230
294 05:00:12	-137.43	3231
294 06:45:07	-163.78	3232
294 08:30:02	169.86	3233
294 10:14:58	143.51	3234
294 11:59:53	117.15	3235
294 13:44:48	90.79	3236
294 15:29:43	64.44	3237
294 17:14:39	38.08	3238
294 18:59:34	11.73	3239
294 20:44:29	-14.63	3240
294 22:29:24	-40.99	3241

295 01:30:56	138.49	6513
295 03:15:49	112.14	6514
295 05:00:43	85.80	6515
295 06:45:36	59.45	6516
295 08:30:30	33.10	6517
295 10:15:23	6.75	6518
295 12:00:17	-19.60	6519
295 13:45:10	-45.95	6520
295 15:30:04	-72.30	6521
295 17:14:57	-98.64	6522
295 18:59:51	-124.99	6523
295 20:44:44	-151.34	6524
295 22:29:38	-177.69	6525

295 00:14:20	-67.34	3242
295 01:59:15	-93.70	3243
295 03:44:10	-120.06	3244
295 05:29:06	-146.41	3245
295 07:14:01	-172.77	3246
295 08:58:56	160.88	3247
295 10:43:51	134.52	3248
295 12:28:47	108.17	3249
295 14:13:42	81.81	3250
295 15:58:37	55.45	3251
295 17:43:33	29.10	3252
295 19:28:28	2.74	3253
295 21:13:23	-23.61	3254
295 22:58:18	-49.97	3255

296 00:14:31	155.96	6526
296 01:59:25	129.61	6527
296 03:44:18	103.26	6528
296 05:29:12	76.92	6529
296 07:14:05	50.57	6530
296 08:58:59	24.22	6531
296 10:43:52	-2.13	6532
296 12:28:46	-28.48	6533
296 14:13:39	-54.83	6534
296 15:58:33	-81.17	6535
296 17:43:26	-107.52	6536
296 19:28:20	-133.87	6537
296 21:13:13	-160.22	6538
296 22:58:07	173.43	6539

296 00:43:14	-76.32	3256
296 02:28:09	-102.68	3257
296 04:13:04	-129.04	3258
296 05:57:59	-155.39	3259
296 07:42:55	178.25	3260
296 09:27:50	151.90	3261
296 11:12:45	125.54	3262
296 12:57:41	99.19	3263
296 14:42:36	72.83	3264
296 16:27:31	46.47	3265
296 18:12:26	20.12	3266
296 19:57:22	-6.24	3267
296 21:42:17	-32.59	3268
296 23:27:12	-58.95	3269

297 00:43:00	147.08	6540
297 02:27:54	120.74	6541
297 04:12:47	94.39	6542
297 05:57:41	68.04	6543
297 07:42:34	41.69	6544
297 09:27:28	15.34	6545
297 11:12:21	-11.01	6546
297 12:57:15	-37.36	6547
297 14:42:08	-63.71	6548
297 16:27:02	-90.05	6549
297 18:11:55	-116.40	6550
297 19:56:49	-142.75	6551
297 21:41:42	-169.10	6552
297 23:26:36	164.55	6553

297 01:12:08	-85.30	3270
297 02:57:03	-111.66	3271
297 04:41:58	-138.02	3272
297 06:26:53	-164.37	3273
297 08:11:49	169.27	3274
297 09:56:44	142.91	3275
297 11:41:39	116.56	3276
297 13:26:34	90.20	3277
297 15:11:30	63.85	3278
297 16:56:25	37.49	3279
297 18:41:20	11.13	3280
297 20:26:16	-15.22	3281
297 22:11:11	-41.58	3282
297 23:56:06	-67.93	3283

SATELLITE S2**Ascending Node Predictions**

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

294 01:22:13	-112.96	30175
294 03:04:13	-138.47	30176
294 04:46:12	-163.96	30177
294 06:28:12	170.54	30178
294 08:10:11	145.05	30179
294 09:52:11	119.55	30180
294 11:34:10	94.06	30181
294 13:16:10	68.56	30182
294 14:58:09	43.07	30183
294 16:40:09	17.57	30184
294 18:22:08	-7.92	30185
294 20:04:08	-33.42	30186
294 21:46:07	-58.91	30187
294 23:28:07	-84.41	30188

SATELLITE S3**Ascending Node Predictions**

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

294 00:10:34	-72.75	21249
294 01:51:46	-98.05	21250
294 03:32:58	-123.35	21251
294 05:14:10	-148.65	21252
294 06:55:22	-173.95	21253
294 08:36:34	160.75	21254
294 10:17:47	135.44	21255
294 11:58:59	110.14	21256
294 13:40:11	84.84	21257
294 15:21:23	59.54	21258
294 17:02:35	34.24	21259
294 18:43:47	8.95	21260
294 20:24:59	-16.35	21261
294 22:06:12	-41.67	21262
294 23:47:24	-66.97	21263

SATELLITE S4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

294 01:06:27	-163.31	10672
294 02:48:31	171.17	10673
294 04:30:35	145.66	10674
294 06:12:39	120.14	10675
294 07:54:42	94.63	10676
294 09:36:46	69.12	10677
294 11:18:50	43.60	10678
294 13:00:54	18.08	10679
294 14:42:58	-7.44	10680
294 16:25:01	-32.94	10681
294 18:07:05	-58.46	10682
294 19:49:09	-83.97	10683
294 21:31:13	-109.49	10684
294 23:13:17	-135.01	10685

295 01:10:06	-109.90	30189
295 02:52:06	-135.40	30190
295 04:34:05	-160.89	30191
295 06:16:05	173.61	30192
295 07:58:04	148.12	30193
295 09:40:04	122.62	30194
295 11:22:03	97.13	30195
295 13:04:03	71.63	30196
295 14:46:02	46.14	30197
295 16:28:02	20.64	30198
295 18:10:01	-4.85	30199
295 19:52:01	-30.35	30200
295 21:34:00	-55.84	30201
295 23:16:00	-81.34	30202

295 01:28:36	-92.26	21264
295 03:09:48	-117.56	21265
295 04:51:00	-142.86	21266
295 06:32:12	-168.16	21267
295 08:13:25	166.53	21268
295 09:54:37	141.23	21269
295 11:35:49	115.93	21270
295 13:17:01	90.63	21271
295 14:58:13	65.33	21272
295 16:39:25	40.03	21273
295 18:20:38	14.72	21274
295 20:01:50	-10.58	21275
295 21:43:02	-35.88	21276
295 23:24:14	-61.18	21277

295 00:55:20	-160.51	10686
295 02:37:24	173.97	10687
295 04:19:28	148.45	10688
295 06:01:32	122.93	10689
295 07:43:36	97.42	10690
295 09:25:39	71.91	10691
295 11:07:43	46.40	10692
295 12:49:47	20.88	10693
295 14:31:51	-4.64	10694
295 16:13:54	-30.14	10695
295 17:55:58	-55.66	10696
295 19:38:02	-81.18	10697
295 21:20:06	-106.70	10698
295 23:02:10	-132.21	10699

296 00:57:59	-106.83	30203
296 02:39:59	-132.33	30204
296 04:21:58	-157.82	30205
296 06:03:58	176.68	30206
296 07:45:57	151.19	30207
296 09:27:57	125.69	30208
296 11:09:56	100.20	30209
296 12:51:56	74.69	30210
296 14:33:55	49.21	30211
296 16:15:55	23.70	30212
296 17:57:54	-1.78	30213
296 19:39:54	-27.29	30214
296 21:21:53	-52.77	30215
296 23:03:53	-78.28	30216

296 01:05:26	-86.48	21278
296 02:46:38	-111.78	21279
296 04:27:50	-137.08	21280
296 06:09:03	-162.39	21281
296 07:50:15	172.31	21282
296 09:31:27	147.01	21283
296 11:12:39	121.71	21284
296 12:53:51	96.41	21285
296 14:35:03	71.11	21286
296 16:16:16	45.80	21287
296 17:57:28	20.50	21288
296 19:38:40	-4.80	21289
296 21:19:52	-30.10	21290
296 23:01:04	-55.40	21291

296 00:44:13	-157.72	10700
296 02:26:17	176.77	10701
296 04:08:21	151.25	10702
296 05:50:25	125.73	10703
296 07:32:29	100.21	10704
296 09:14:32	74.71	10705
296 10:56:36	49.19	10706
296 12:38:40	23.67	10707
296 14:20:44	-1.84	10708
296 16:02:48	-27.36	10709
296 17:44:51	-52.86	10710
296 19:26:55	-78.38	10711
296 21:08:59	-103.90	10712
296 22:51:03	-129.42	10713

297 00:45:52	-103.77	30217
297 02:27:52	-129.27	30218
297 04:09:51	-154.76	30219
297 05:51:51	179.74	30220
297 07:33:50	154.25	30221
297 09:15:50	128.75	30222
297 10:57:49	103.26	30223
297 12:39:49	77.76	30224
297 14:21:48	52.27	30225
297 16:03:48	26.77	30226
297 17:45:47	1.28	30227
297 19:27:47	-24.22	30228
297 21:09:46	-49.71	30229
297 22:51:46	-75.21	30230

297 00:42:16	-80.69	21292
297 02:23:29	-106.01	21293
297 04:04:41	-131.31	21294
297 05:45:53	-156.61	21295
297 07:27:05	178.10	21296
297 09:08:17	152.80	21297
297 10:49:29	127.50	21298
297 12:30:42	102.18	21299
297 14:11:54	76.89	21300
297 15:53:06	51.59	21301
297 17:34:18	26.29	21302
297 19:15:30	.99	21303
297 20:56:42	-24.31	21304
297 22:37:55	-49.62	21305

297 00:33:07	-154.93	10714
297 02:15:10	179.56	10715
297 03:57:14	154.04	10716
297 05:39:18	128.53	10717
297 07:21:22	103.01	10718
297 09:03:26	77.49	10719
297 10:45:29	51.99	10720
297 12:27:33	26.47	10721
297 14:09:37	.95	10722
297 15:51:41	-24.56	10723
297 17:33:45	-50.08	10724
297 19:15:48	-75.59	10725
297 20:57:52	-101.10	10726
297 22:39:56	-126.62	10727

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

298 01:11:29	138.20	6554
298 02:56:23	111.86	6555
298 04:41:16	85.51	6556
298 06:26:10	59.16	6557
298 08:11:03	32.81	6558
298 09:55:57	6.46	6559
298 11:40:50	-19.89	6560
298 13:25:44	-46.23	6561
298 15:10:37	-72.58	6562
298 16:55:31	-98.93	6563
298 18:40:24	-125.28	6564
298 20:25:18	-151.63	6565
298 22:10:11	-177.98	6566
298 23:55:05	155.68	6567

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

298 01:41:01	-94.29	3284
298 03:25:57	-120.64	3285
298 05:10:52	-147.00	3286
298 06:55:47	-173.36	3287
298 08:40:43	160.29	3288
298 10:25:38	133.93	3289
298 12:10:33	107.58	3290
298 13:55:28	81.22	3291
298 15:40:24	54.87	3292
298 17:25:19	28.51	3293
298 19:10:14	2.15	3294
298 20:55:10	-24.20	3295
298 22:40:05	-50.56	3296

299 01:39:58	129.33	6568
299 03:24:52	102.98	6569
299 05:09:45	76.63	6570
299 06:54:39	50.28	6571
299 08:39:32	23.93	6572
299 10:24:26	-2.42	6573
299 12:09:19	-28.77	6574
299 13:54:13	-55.11	6575
299 15:39:06	-81.46	6576
299 17:24:00	-107.81	6577
299 19:08:53	-134.16	6578
299 20:53:47	-160.51	6579
299 22:38:40	173.14	6580

299 00:25:00	-76.91	3297
299 02:09:55	-103.27	3298
299 03:54:51	-129.62	3299
299 05:39:46	-155.98	3300
299 07:24:41	177.66	3301
299 09:09:36	151.31	3302
299 10:54:32	124.95	3303
299 12:39:27	98.59	3304
299 14:24:22	72.24	3305
299 16:09:18	45.88	3306
299 17:54:13	19.53	3307
299 19:39:08	-6.83	3308
299 21:24:03	-33.19	3309
299 23:08:59	-59.54	3310

300 00:23:34	146.80	6581
300 02:08:27	120.45	6582
300 03:53:21	94.10	6583
300 05:38:14	67.75	6584
300 07:23:08	41.40	6585
300 09:08:01	15.05	6586
300 10:52:55	-11.29	6587
300 12:37:48	-37.64	6588
300 14:22:42	-63.99	6589
300 16:07:35	-90.34	6590
300 17:52:29	-116.69	6591
300 19:37:22	-143.04	6592
300 21:22:16	-169.38	6593
300 23:07:09	164.27	6594

300 00:53:54	-85.90	3311
300 02:38:49	-112.25	3312
300 04:23:45	-138.61	3313
300 06:08:40	-164.96	3314
300 07:53:35	168.68	3315
300 09:38:30	142.32	3316
300 11:23:26	115.97	3317
300 13:08:21	89.61	3318
300 14:53:16	63.26	3319
300 16:38:12	36.90	3320
300 18:23:07	10.55	3321
300 20:08:02	-15.81	3322
300 21:52:57	-42.17	3323
300 23:37:53	-68.52	3324

301 00:52:03	137.92	6595
301 02:36:56	111.57	6596
301 04:21:50	85.22	6597
301 06:06:43	58.87	6598
301 07:51:37	32.53	6599
301 09:36:30	6.18	6600
301 11:21:24	-20.17	6601
301 13:06:17	-46.52	6602
301 14:51:11	-72.87	6603
301 16:36:04	-99.22	6604
301 18:20:58	-125.57	6605
301 20:05:51	-151.92	6606
301 21:50:45	-178.26	6607
301 23:35:38	155.39	6608

301 01:22:48	-94.88	3325
301 03:07:43	-121.23	3326
301 04:52:38	-147.59	3327
301 06:37:34	-173.94	3328
301 08:22:29	159.70	3329
301 10:07:24	133.34	3330
301 11:52:20	106.99	3331
301 13:37:15	80.63	3332
301 15:22:10	54.27	3333
301 17:07:05	27.92	3334
301 18:52:01	1.56	3335
301 20:36:56	-24.79	3336
301 22:21:51	-51.15	3337

SATELLITE S2**Ascending Node Predictions**

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

298 00:33:45	-100.70	30231
298 02:15:45	-126.20	30232
298 03:57:44	-151.69	30233
298 05:39:44	-177.19	30234
298 07:21:43	157.32	30235
298 09:03:43	131.82	30236
298 10:45:42	106.33	30237
298 12:27:42	80.83	30238
298 14:09:41	55.34	30239
298 15:51:41	29.84	30240
298 17:33:40	4.35	30241
298 19:15:40	-21.15	30242
298 20:57:39	-46.64	30243
298 22:39:39	-72.14	30244

SATELLITE S3**Ascending Node Predictions**

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

298 00:19:07	-74.92	21306
298 02:00:19	-100.22	21307
298 03:41:31	-125.52	21308
298 05:22:43	-150.82	21309
298 07:03:55	-176.12	21310
298 08:45:07	158.58	21311
298 10:26:20	133.27	21312
298 12:07:32	107.97	21313
298 13:48:44	82.67	21314
298 15:29:56	57.37	21315
298 17:11:08	32.07	21316
298 18:52:20	6.77	21317
298 20:33:33	-18.54	21318
298 22:14:45	-43.84	21319
298 23:55:57	-69.14	21320

SATELLITE S4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

298 00:22:00	-152.14	10728
298 02:04:04	-177.66	10729
298 03:46:07	156.84	10730
298 05:28:11	131.32	10731
298 07:10:15	105.81	10732
298 08:52:19	80.29	10733
298 10:34:23	54.77	10734
298 12:16:26	29.27	10735
298 13:58:30	3.75	10736
298 15:40:34	-21.77	10737
298 17:22:38	-47.29	10738
298 19:04:42	-72.80	10739
298 20:46:45	-98.31	10740
298 22:28:49	-123.82	10741

299 00:21:38	-97.63	30245
299 02:03:38	-123.13	30246
299 03:45:37	-148.62	30247
299 05:27:37	-174.13	30248
299 07:09:36	160.39	30249
299 08:51:36	134.88	30250
299 10:33:35	109.40	30251
299 12:15:35	83.89	30252
299 13:57:34	58.41	30253
299 15:39:34	32.90	30254
299 17:21:33	7.41	30255
299 19:03:33	-18.09	30256
299 20:45:32	-43.58	30257
299 22:27:32	-69.08	30258

299 01:37:09	-94.44	21321
299 03:18:21	-119.74	21322
299 04:59:33	-145.03	21323
299 06:40:46	-170.35	21324
299 08:21:58	164.35	21325
299 10:03:10	139.05	21326
299 11:44:22	113.76	21327
299 13:25:34	88.46	21328
299 15:06:46	63.16	21329
299 16:47:59	37.84	21330
299 18:29:11	12.55	21331
299 20:10:23	-12.75	21332
299 21:51:35	-38.05	21333
299 23:32:47	-63.35	21334

299 00:10:53	-149.34	10742
299 01:52:57	-174.86	10743
299 03:35:01	159.62	10744
299 05:17:04	134.12	10745
299 06:59:08	108.60	10746
299 08:41:12	83.08	10747
299 10:23:16	57.57	10748
299 12:05:20	32.05	10749
299 13:47:23	6.55	10750
299 15:29:27	-18.97	10751
299 17:11:31	-44.49	10752
299 18:53:35	-70.01	10753
299 20:35:39	-95.52	10754
299 22:17:42	-121.03	10755
299 23:59:46	-146.55	10756

300 00:09:31	-94.57	30259
300 01:51:31	-120.07	30260
300 03:33:30	-145.56	30261
300 05:15:30	-171.06	30262
300 06:57:29	163.45	30263
300 09:39:29	137.95	30264
300 10:21:28	112.46	30265
300 12:03:28	86.96	30266
300 13:45:27	61.47	30267
300 15:27:27	35.97	30268
300 17:09:26	10.48	30269
300 18:51:26	-15.02	30270
300 20:33:25	-40.51	30271
300 22:15:25	-66.01	30272
300 23:57:24	-91.50	30273

300 01:13:59	-88.65	21335
300 02:55:12	-113.96	21336
300 04:36:24	-139.26	21337
300 06:17:36	-164.56	21338
300 07:58:48	170.14	21339
300 09:40:00	144.84	21340
300 11:21:12	119.54	21341
300 13:02:24	94.24	21342
300 14:43:37	68.93	21343
300 16:24:49	43.63	21344
300 18:06:01	18.33	21345
300 19:47:13	-6.97	21346
300 21:28:25	-32.27	21347
300 23:09:37	-57.57	21348

300 01:41:50	-172.06	10757
300 03:23:54	162.42	10758
300 05:05:58	136.90	10759
300 06:48:01	111.40	10760
300 08:30:05	85.88	10761
300 10:12:09	60.36	10762
300 11:54:13	34.85	10763
300 13:36:17	9.33	10764
300 15:18:20	-16.18	10765
300 17:00:24	-41.69	10766
300 18:42:28	-67.21	10767
300 20:24:32	-92.73	10768
300 22:06:36	-118.24	10769
300 23:48:39	-143.75	10770

301 01:39:24	-117.00	30274
301 03:21:23	-142.49	30275
301 05:03:23	-167.99	30276
301 06:45:22	166.52	30277
301 08:27:22	141.02	30278
301 10:09:21	115.53	30279
301 11:51:21	90.03	30280
301 13:33:20	64.54	30281
301 15:15:20	39.04	30282
301 16:57:19	13.55	30283
301 18:39:19	-11.95	30284
301 20:21:18	-37.44	30285
301 22:03:18	-62.95	30286
301 23:45:17	-88.43	30287

301 00:50:50	-82.88	21349
301 02:32:02	-108.18	21350
301 04:13:14	-133.48	21351
301 05:54:26	-158.78	21352
301 07:35:38	175.92	21353
301 09:16:50	150.63	21354
301 10:58:03	125.31	21355
301 12:39:15	100.01	21356
301 14:20:27	74.71	21357
301 16:01:39	49.42	21358
301 17:42:51	24.12	21359
301 19:24:03	-1.18	21360
301 21:05:16	-26.50	21361
301 22:46:28	-51.79	21362

301 01:30:43	-169.27	10771
301 03:12:47	165.22	10772
301 04:54:51	139.70	10773
301 06:36:55	114.18	10774
301 08:18:58	88.68	10775
301 10:01:02	63.16	10776
301 11:43:06	37.64	10777
301 13:25:10	12.13	10778
301 15:07:14	-13.39	10779
301 16:49:17	-38.90	10780
301 18:31:21	-64.41	10781
301 20:13:25	-89.93	10782
301 21:55:29	-115.45	10783
301 23:37:33	-140.97	10784

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

302 01:20:32	129.04	6609
302 03:05:25	102.69	6610
302 04:50:19	76.34	6611
302 06:35:12	49.99	6612
302 08:20:06	23.65	6613
302 10:04:59	-2.70	6614
302 11:49:53	-29.05	6615
302 13:34:46	-55.40	6616
302 15:19:40	-81.75	6617
302 17:04:33	-108.10	6618
302 18:49:27	-134.44	6619
302 20:34:20	-160.79	6620
302 22:19:14	172.86	6621

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

302 00:06:47	-77.50	3338
302 01:51:42	-103.86	3339
302 03:36:37	-130.22	3340
302 05:21:32	-156.57	3341
302 07:06:28	177.07	3342
302 08:51:23	150.72	3343
302 10:36:18	124.36	3344
302 12:21:14	98.01	3345
302 14:06:09	71.65	3346
302 15:51:04	45.29	3347
302 17:35:59	18.94	3348
302 19:20:55	-7.42	3349
302 21:05:50	-33.77	3350
302 22:50:45	-60.13	3351

303 00:04:08	146.51	6622
303 01:49:01	120.16	6623
303 03:33:55	93.82	6624
303 05:18:48	67.47	6625
303 07:03:42	41.12	6626
303 08:48:35	14.77	6627
303 10:33:29	-11.58	6628
303 12:18:22	-37.93	6629
303 14:03:16	-64.28	6630
303 15:48:09	-90.63	6631
303 17:33:03	-116.97	6632
303 19:17:56	-143.32	6633
303 21:02:50	-169.67	6634
303 22:47:43	163.98	6635

303 00:35:40	-86.49	3352
303 02:20:36	-112.84	3353
303 04:05:31	-139.20	3354
303 05:50:26	-165.55	3355
303 07:35:22	168.09	3356
303 09:20:17	141.74	3357
303 11:05:12	115.38	3358
303 12:50:07	89.02	3359
303 14:35:03	62.67	3360
303 16:19:58	36.31	3361
303 18:04:53	9.95	3362
303 19:49:49	-16.40	3363
303 21:34:44	-42.76	3364
303 23:19:39	-69.11	3365

304 00:32:37	137.63	6636
304 02:17:30	111.28	6637
304 04:02:24	84.94	6638
304 05:47:17	58.59	6639
304 07:32:11	32.24	6640
304 09:17:04	5.89	6641
304 11:01:58	-20.46	6642
304 12:46:51	-46.81	6643
304 14:31:45	-73.15	6644
304 16:16:38	-99.50	6645
304 18:01:32	-125.85	6646
304 19:46:25	-152.20	6647
304 21:31:19	-178.55	6648
304 23:16:12	155.10	6649

304 01:04:34	-95.47	3366
304 02:49:30	-121.82	3367
304 04:34:25	-148.18	3368
304 06:19:20	-174.54	3369
304 08:04:16	159.11	3370
304 09:49:11	132.75	3371
304 11:34:06	106.40	3372
304 13:19:01	80.04	3373
304 15:03:57	53.69	3374
304 16:48:52	27.33	3375
304 18:33:47	.97	3376
304 20:18:43	-25.38	3377
304 22:03:38	-51.74	3378
304 23:48:33	-78.09	3379

305 01:01:06	128.76	6650
305 02:45:59	102.41	6651
305 04:30:53	76.06	6652
305 06:15:46	49.71	6653
305 08:00:40	23.36	6654
305 09:45:33	-2.99	6655
305 11:30:27	-29.33	6656
305 13:15:20	-55.68	6657
305 15:00:14	-82.03	6658
305 16:45:07	-108.38	6659
305 18:30:01	-134.73	6660
305 20:14:54	-161.08	6661
305 21:59:48	172.57	6662
305 23:44:41	146.23	6663

305 01:33:28	-104.45	3380
305 03:18:24	-130.80	3381
305 05:03:19	-157.16	3382
305 06:48:14	176.48	3383
305 08:33:10	150.13	3384
305 10:18:05	123.77	3385
305 12:03:00	97.41	3386
305 13:47:55	71.06	3387
305 15:32:51	44.70	3388
305 17:17:46	18.35	3389
305 19:02:41	-8.01	3390
305 20:47:37	-34.36	3391
305 22:32:32	-60.72	3392

SATELLITE S2

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

302 01:27:17	-113.94	30288
302 03:09:16	-139.42	30289
302 04:51:16	-164.93	30290
302 06:33:15	169.59	30291
302 08:15:15	144.08	30292
302 09:57:14	118.59	30293
302 11:39:14	93.09	30294
302 13:21:13	67.60	30295
302 15:03:13	42.10	30296
302 16:45:12	16.61	30297
302 18:27:12	-8.89	30298
302 20:09:11	-34.38	30299
302 21:51:11	-59.88	30300
302 23:33:10	-85.37	30301

SATELLITE S3

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

302 00:27:40	-77.09	21363
302 02:08:52	-102.39	21364
302 03:50:04	-127.69	21365
302 05:31:16	-152.99	21366
302 07:12:29	-178.30	21367
302 08:53:41	156.40	21368
302 10:34:53	131.10	21369
302 12:16:05	105.80	21370
302 13:57:17	80.50	21371
302 15:38:29	55.20	21372
302 17:19:42	29.89	21373
302 19:00:54	4.59	21374
302 20:42:06	-20.71	21375
302 22:23:18	-46.01	21376

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

302 01:19:36	-166.47	10785
302 03:01:40	168.01	10786
302 04:43:44	142.50	10787
302 06:25:48	116.98	10788
302 08:07:52	91.46	10789
302 09:49:55	65.96	10790
302 11:31:59	40.44	10791
302 13:14:03	14.92	10792
302 14:56:07	-10.60	10793
302 16:38:11	-36.11	10794
302 18:20:14	-61.62	10795
302 20:02:18	-87.13	10796
302 21:44:22	-112.65	10797
302 23:26:26	-138.17	10798

303 01:15:10	-110.87	30302
303 02:57:09	-136.36	30303
303 04:39:09	-161.86	30304
303 06:21:08	172.65	30305
303 08:03:08	147.15	30306
303 09:45:07	121.66	30307
303 11:27:07	96.16	30308
303 13:09:06	70.67	30309
303 14:51:06	45.17	30310
303 16:33:05	19.68	30311
303 18:15:05	-5.82	30312
303 19:57:04	-31.31	30313
303 21:39:04	-56.81	30314
303 23:21:03	-82.30	30315

303 00:04:30	-71.31	21377
303 01:45:42	-96.61	21378
303 03:26:55	-121.92	21379
303 05:08:07	-147.22	21380
303 06:49:19	-172.52	21381
303 08:30:31	162.18	21382
303 10:11:43	136.88	21383
303 11:52:55	111.58	21384
303 13:34:07	86.29	21385
303 15:15:20	60.97	21386
303 16:56:32	35.67	21387
303 18:37:44	10.37	21388
303 20:18:56	-14.92	21389
303 22:00:08	-40.22	21390
303 23:41:20	-65.52	21391

303 01:08:30	-163.69	10799
303 02:50:33	170.81	10800
303 04:32:37	145.29	10801
303 06:14:41	119.77	10802
303 07:56:45	94.26	10803
303 09:38:49	68.74	10804
303 11:20:52	43.24	10805
303 13:02:56	17.72	10806
303 14:45:00	-7.80	10807
303 16:27:04	-33.32	10808
303 18:09:08	-58.83	10809
303 19:51:11	-84.34	10810
303 21:33:15	-109.86	10811
303 23:15:19	-135.37	10812

304 01:03:03	-107.80	30316
304 02:45:02	-133.29	30317
304 04:27:02	-158.79	30318
304 06:09:01	175.72	30319
304 07:51:01	150.22	30320
304 09:33:00	124.73	30321
304 11:15:00	99.23	30322
304 12:56:59	73.74	30323
304 14:38:59	48.23	30324
304 16:20:58	22.75	30325
304 18:02:58	-2.76	30326
304 19:44:57	-28.24	30327
304 21:26:57	-53.75	30328
304 23:08:56	-79.23	30329

304 01:22:33	-90.83	21392
304 03:03:45	-116.13	21393
304 04:44:57	-141.43	21394
304 06:26:09	-166.73	21395
304 08:07:21	167.97	21396
304 09:48:33	142.67	21397
304 11:29:46	117.36	21398
304 13:10:58	92.06	21399
304 14:52:10	66.76	21400
304 16:33:22	41.46	21401
304 18:14:34	16.16	21402
304 19:55:46	-9.14	21403
304 21:36:59	-34.45	21404
304 23:18:11	-59.75	21405

304 00:57:23	-160.89	10813
304 02:39:27	173.59	10814
304 04:21:30	148.09	10815
304 06:03:34	122.57	10816
304 07:45:38	97.05	10817
304 09:27:42	71.54	10818
304 11:09:46	46.02	10819
304 12:51:49	20.52	10820
304 14:33:53	-5.00	10821
304 16:15:57	-30.52	10822
304 17:58:01	-56.04	10823
304 19:40:05	-81.55	10824
304 21:22:08	-107.06	10825
304 23:04:12	-132.58	10826

305 00:50:56	-104.74	30330
305 02:32:55	-130.23	30331
305 04:14:55	-155.73	30332
305 05:56:54	178.78	30333
305 07:38:54	153.28	30334
305 09:20:53	127.79	30335
305 11:02:53	102.29	30336
305 12:44:52	76.80	30337
305 14:26:52	51.30	30338
305 16:08:51	25.81	30339
305 17:50:51	.31	30340
305 19:32:50	-25.18	30341
305 21:14:50	-50.68	30342
305 22:56:49	-76.17	30343

305 00:59:23	-85.05	21406
305 02:40:35	-110.35	21407
305 04:21:47	-135.65	21408
305 06:02:59	-160.95	21409
305 07:44:12	173.74	21410
305 09:25:24	148.44	21411
305 11:06:36	123.14	21412
305 12:47:48	97.84	21413
305 14:29:00	72.54	21414
305 16:10:12	47.25	21415
305 17:51:25	21.93	21416
305 19:32:37	-3.37	21417
305 21:13:49	-28.67	21418
305 22:55:01	-53.96	21419

305 00:46:16	-158.09	10827
305 02:28:20	176.39	10828
305 04:10:24	150.87	10829
305 05:52:27	125.37	10830
305 07:34:31	99.85	10831
305 09:16:35	74.33	10832
305 10:58:39	48.82	10833
305 12:40:43	23.30	10834
305 14:22:46	-2.21	10835
305 16:04:50	-27.72	10836
305 17:46:54	-53.24	10837
305 19:28:58	-78.76	10838
305 21:11:02	-104.27	10839
305 22:53:05	-129.78	10840

SATELLITE C4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

306 01:29:35	119.88	6664
306 03:14:28	93.53	6665
306 04:59:22	67.18	6666
306 06:44:15	40.83	6667
306 08:29:09	14.48	6668
306 10:14:02	-11.87	6669
306 11:58:56	-38.21	6670
306 13:43:49	-64.56	6671
306 15:28:43	-90.91	6672
306 17:13:36	-117.26	6673
306 18:58:30	-143.61	6674
306 20:43:23	-169.96	6675
306 22:28:17	163.70	6676

SATELLITE C5
Ascending Node Predictions

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

306 00:17:27	-87.08	3393
306 02:02:22	-113.43	3394
306 03:47:18	-139.79	3395
306 05:32:13	-166.14	3396
306 07:17:08	167.50	3397
306 09:02:04	141.15	3398
306 10:46:59	114.79	3399
306 12:31:54	88.43	3400
306 14:16:49	62.08	3401
306 16:01:45	35.72	3402
306 17:46:40	9.37	3403
306 19:31:35	-16.99	3404
306 21:16:31	-43.35	3405
306 23:01:26	-69.70	3406

307 00:13:10	137.35	6677
307 01:58:04	111.00	6678
307 03:42:57	84.65	6679
307 05:27:51	58.30	6680
307 07:12:44	31.95	6681
307 08:57:38	5.61	6682
307 10:42:31	-20.74	6683
307 12:27:25	-47.09	6684
307 14:12:18	-73.44	6685
307 15:57:12	-99.79	6686
307 17:42:05	-126.14	6687
307 19:26:59	-152.48	6688
307 21:11:52	-178.83	6689
307 22:56:46	154.82	6690

307 00:46:21	-96.06	3407
307 02:31:16	-122.42	3408
307 04:16:12	-148.77	3409
307 06:01:07	-175.13	3410
307 07:46:02	158.52	3411
307 09:30:58	132.16	3412
307 11:15:53	105.81	3413
307 13:00:48	79.45	3414
307 14:45:43	53.09	3415
307 16:30:39	26.74	3416
307 18:15:34	.38	3417
307 20:00:29	-25.97	3418
307 21:45:25	-52.33	3419
307 23:30:20	-78.68	3420

308 00:41:39	128.47	6691
308 02:26:33	102.12	6692
308 04:11:26	75.77	6693
308 05:56:20	49.43	6694
308 07:41:13	23.08	6695
308 09:26:07	-3.27	6696
308 11:11:00	-29.62	6697
308 12:55:54	-55.97	6698
308 14:40:47	-82.32	6699
308 16:25:41	-108.67	6700
308 18:10:34	-135.02	6701
308 19:55:28	-161.36	6702
308 21:40:21	172.29	6703
308 23:25:15	145.94	6704

308 01:15:15	-105.04	3421
308 03:00:10	-131.40	3422
308 04:45:06	-157.75	3423
308 06:30:01	175.89	3424
308 08:14:56	149.54	3425
308 09:59:52	123.18	3426
308 11:44:47	96.82	3427
308 13:29:42	70.47	3428
308 15:14:37	44.11	3429
308 16:59:33	17.76	3430
308 18:44:28	-8.60	3431
308 20:29:23	-34.96	3432
308 22:14:19	-61.31	3433
308 23:59:14	-87.67	3434

309 01:10:08	119.59	6705
309 02:55:02	93.24	6706
309 04:39:55	66.89	6707
309 06:24:49	40.55	6708
309 08:09:42	14.20	6709
309 09:54:36	-12.15	6710
309 11:39:29	-38.50	6711
309 13:24:23	-64.85	6712
309 15:09:16	-91.20	6713
309 16:54:10	-117.54	6714
309 18:39:03	-143.89	6715
309 20:23:57	-170.24	6716
309 22:08:50	163.41	6717
309 23:53:44	137.06	6718

309 01:44:09	-114.02	3435
309 03:29:04	-140.38	3436
309 05:14:00	-166.73	3437
309 06:58:55	166.91	3438
309 08:43:50	140.55	3439
309 10:28:46	114.20	3440
309 12:13:41	87.84	3441
309 13:58:36	61.49	3442
309 15:43:31	35.13	3443
309 17:28:27	8.78	3444
309 19:13:22	-17.58	3445
309 20:58:17	-43.94	3446
309 22:43:13	-70.29	3447

SATELLITE S2

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

306 00:38:49	-101.67	30344
306 02:20:48	-127.16	30345
306 04:02:48	-152.66	30346
306 05:44:47	-178.15	30347
306 07:26:47	156.35	30348
306 09:08:46	130.86	30349
306 10:50:46	105.36	30350
306 12:32:45	79.87	30351
306 14:14:45	54.37	30352
306 15:56:44	28.88	30353
306 17:38:44	3.38	30354
306 19:20:43	-22.11	30355
306 21:02:43	-47.61	30356
306 22:44:42	-73.10	30357

SATELLITE S3

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

306 00:36:13	-79.26	21420
306 02:17:25	-104.56	21421
306 03:58:38	-129.87	21422
306 05:39:50	-155.17	21423
306 07:21:02	179.53	21424
306 09:02:14	154.23	21425
306 10:43:26	128.93	21426
306 12:24:38	103.63	21427
306 14:05:51	78.32	21428
306 15:47:03	53.02	21429
306 17:28:15	27.72	21430
306 19:09:27	2.42	21431
306 20:50:39	-22.88	21432
306 22:31:51	-48.18	21433

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

306 00:35:09	-155.30	10841
306 02:17:13	179.19	10842
306 03:59:17	153.67	10843
306 05:41:21	128.15	10844
306 07:23:24	102.65	10845
306 09:05:28	77.13	10846
306 10:47:32	51.61	10847
306 12:29:36	26.10	10848
306 14:11:40	.58	10849
306 15:53:43	-24.93	10850
306 17:35:47	-50.44	10851
306 19:17:51	-75.96	10852
306 20:59:55	-101.48	10853
306 22:41:59	-127.00	10854

307 00:26:42	-98.60	30358
307 02:08:41	-124.09	30359
307 03:50:41	-149.59	30360
307 05:32:40	-175.08	30361
307 07:14:40	159.42	30362
307 08:56:39	133.93	30363
307 10:38:39	108.42	30364
307 12:20:38	82.94	30365
307 14:02:38	57.43	30366
307 15:44:37	31.95	30367
307 17:26:37	6.44	30368
307 19:08:36	-19.04	30369
307 20:50:36	-44.55	30370
307 22:32:35	-70.04	30371

307 00:13:04	-73.49	21434
307 01:54:16	-98.79	21435
307 03:35:28	-124.09	21436
307 05:16:40	-149.39	21437
307 06:57:52	-174.69	21438
307 08:39:04	160.01	21439
307 10:20:17	134.70	21440
307 12:01:29	109.40	21441
307 13:42:41	84.10	21442
307 15:23:53	58.80	21443
307 17:05:05	33.50	21444
307 18:46:17	8.21	21445
307 20:27:30	-17.11	21446
307 22:08:42	-42.41	21447
307 23:49:54	-67.71	21448

307 00:24:02	-152.50	10855
307 02:06:06	-178.02	10856
307 03:48:10	156.47	10857
307 05:30:14	130.95	10858
307 07:12:18	105.43	10859
307 08:54:21	79.93	10860
307 10:36:25	54.41	10861
307 12:18:29	28.89	10862
307 14:00:33	3.37	10863
307 15:42:37	-22.14	10864
307 17:24:40	-47.65	10865
307 19:06:44	-73.16	10866
307 20:48:48	-98.68	10867
307 22:30:52	-124.20	10868

308 00:14:35	-95.54	30372
308 01:56:34	-121.03	30373
308 03:38:34	-146.53	30374
308 05:20:33	-172.02	30375
308 07:02:33	162.48	30376
308 08:44:32	136.99	30377
308 10:26:32	111.49	30378
308 12:08:31	86.00	30379
308 13:50:31	60.50	30380
308 15:32:30	35.01	30381
308 17:14:30	9.51	30382
308 18:56:29	-15.98	30383
308 20:38:29	-41.48	30384
308 22:20:28	-66.97	30385

308 01:31:06	-93.00	21449
308 03:12:18	-118.30	21450
308 04:53:30	-143.60	21451
308 06:34:43	-168.91	21452
308 08:15:55	165.79	21453
308 09:57:07	140.49	21454
308 11:38:19	115.19	21455
308 13:19:31	89.89	21456
308 15:00:43	64.59	21457
308 16:41:56	39.28	21458
308 18:23:08	13.98	21459
308 20:04:20	-11.32	21460
308 21:45:32	-36.62	21461
308 23:26:44	-61.92	21462

308 00:12:56	-149.72	10869
308 01:54:59	-175.22	10870
308 03:37:03	159.26	10871
308 05:19:07	133.75	10872
308 07:01:11	108.23	10873
308 08:43:15	82.71	10874
308 10:25:18	57.21	10875
308 12:07:22	31.69	10876
308 13:49:26	6.17	10877
308 15:31:30	-19.35	10878
308 17:13:34	-44.86	10879
308 18:55:37	-70.37	10880
308 20:37:41	-95.88	10881
308 22:19:45	-121.40	10882

309 00:02:28	-92.47	30386
309 01:44:27	-117.96	30387
309 03:26:27	-143.46	30388
309 05:08:26	-168.95	30389
309 06:50:26	165.55	30390
309 08:32:25	140.06	30391
309 10:14:25	114.56	30392
309 11:56:24	89.07	30393
309 13:38:24	63.57	30394
309 15:20:23	38.08	30395
309 17:02:23	12.58	30396
309 18:44:22	-12.91	30397
309 20:26:22	-38.41	30398
309 22:08:21	-63.90	30399
309 23:50:21	-89.40	30400

309 01:07:56	-87.22	21463
309 02:49:08	-112.52	21464
309 04:30:21	-137.83	21465
309 06:11:33	-163.13	21466
309 07:52:45	171.57	21467
309 09:33:57	146.27	21468
309 11:15:09	120.97	21469
309 12:56:21	95.67	21470
309 14:37:34	70.36	21471
309 16:18:46	45.06	21472
309 17:59:58	19.76	21473
309 19:41:10	-5.54	21474
309 21:22:22	-30.83	21475
309 23:03:34	-56.13	21476

309 00:01:49	-146.92	10883
309 01:43:53	-172.44	10884
309 03:25:56	162.06	10885
309 05:08:00	136.54	10886
309 06:50:04	111.02	10887
309 08:32:08	85.51	10888
309 10:14:12	59.99	10889
309 11:56:15	34.49	10890
309 13:38:19	8.97	10891
309 15:20:23	-16.55	10892
309 17:02:27	-42.07	10893
309 18:44:31	-67.58	10894
309 20:26:34	-93.09	10895
309 22:08:38	-118.60	10896
309 23:50:42	-144.12	10897

SATELLITE C4**Ascending Node Predictions****Predicting for 183 days**

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

310 01:38:37	110.71	6719
310 03:23:31	84.37	6720
310 05:08:24	58.02	6721
310 06:53:17	31.67	6722
310 08:38:11	5.32	6723
310 10:23:04	-21.03	6724
310 12:07:58	-47.38	6725
310 13:52:51	-73.73	6726
310 15:37:45	-100.07	6727
310 17:22:38	-126.42	6728
310 19:07:32	-152.77	6729
310 20:52:25	-179.12	6730
310 22:37:19	154.53	6731

SATELLITE C5**Ascending Node Predictions****Predicting for 185 days**

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

310 00:28:08	-96.65	3448
310 02:13:03	-123.01	3449
310 03:57:58	-149.36	3450
310 05:42:54	-175.72	3451
310 07:27:49	157.93	3452
310 09:12:44	131.57	3453
310 10:57:40	105.22	3454
310 12:42:35	78.86	3455
310 14:27:30	52.50	3456
310 16:12:25	26.15	3457
310 17:57:21	-21	3458
310 19:42:16	-26.56	3459
310 21:27:11	-52.92	3460
310 23:12:07	-79.27	3461

311 00:22:12	128.18	6732
311 02:07:06	101.84	6733
311 03:51:59	75.49	6734
311 05:36:53	49.14	6735
311 07:21:46	22.79	6736
311 09:06:40	-3.56	6737
311 10:51:33	-29.91	6738
311 12:36:27	-56.26	6739
311 14:21:20	-82.61	6740
311 16:06:14	-108.95	6741
311 17:51:07	-135.30	6742
311 19:36:01	-161.65	6743
311 21:20:54	172.00	6744
311 23:05:48	145.65	6745

311 00:57:02	-105.63	3462
311 02:41:57	-131.99	3463
311 04:26:52	-158.34	3464
311 06:11:48	175.30	3465
311 07:56:43	148.94	3466
311 09:41:38	122.59	3467
311 11:26:34	96.23	3468
311 13:11:29	69.88	3469
311 14:56:24	43.52	3470
311 16:41:20	17.17	3471
311 18:26:15	-9.19	3472
311 20:11:10	-35.55	3473
311 21:56:05	-61.90	3474
311 23:41:01	-88.26	3475

312 00:50:41	119.30	6746
312 02:35:35	92.96	6747
312 04:20:28	66.61	6748
312 06:05:22	40.26	6749
312 07:50:15	13.91	6750
312 09:35:09	-12.44	6751
312 11:20:02	-38.79	6752
312 13:04:56	-65.13	6753
312 14:49:49	-91.48	6754
312 16:34:43	-117.83	6755
312 18:19:36	-144.18	6756
312 20:04:30	-170.53	6757
312 21:49:23	163.12	6758
312 23:34:17	136.78	6759

312 01:25:56	-114.61	3476
312 03:10:51	-140.97	3477
312 04:55:47	-167.32	3478
312 06:40:42	166.32	3479
312 08:25:37	139.96	3480
312 10:10:32	113.61	3481
312 11:55:28	87.25	3482
312 13:40:23	60.89	3483
312 15:25:18	34.54	3484
312 17:10:14	8.18	3485
312 18:55:09	-18.17	3486
312 20:40:04	-44.53	3487
312 22:24:59	-70.89	3488

313 01:19:10	110.43	6760
313 03:04:04	84.08	6761
313 04:48:57	57.73	6762
313 06:33:51	31.38	6763
313 08:18:44	5.03	6764
313 10:03:38	-21.31	6765
313 11:48:31	-47.66	6766
313 13:33:25	-74.01	6767
313 15:18:18	-100.36	6768
313 17:03:12	-126.71	6769
313 18:48:05	-153.06	6770
313 20:32:59	-179.41	6771
313 22:17:52	154.24	6772

313 00:09:55	-97.24	3489
313 01:54:50	-123.60	3490
313 03:39:45	-149.95	3491
313 05:24:41	-176.31	3492
313 07:09:36	157.34	3493
313 08:54:31	130.98	3494
313 10:39:27	104.63	3495
313 12:24:22	78.27	3496
313 14:09:17	51.91	3497
313 15:54:12	25.55	3498
313 17:39:08	-80	3499
313 19:24:03	-27.16	3500
313 21:08:58	-53.51	3501
313 22:53:54	-79.87	3502

SATELLITE S2				SATELLITE S3				SATELLITE S4				
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions				
Predicting for 184 days				Predicting for 184 days				Predicting for 183 days				
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	day	hr	mn sc	
day	hr	mn sc	deg dg	day	hr	mn sc	deg dg	day	hr	mn sc	deg dg	
310 01:32:20	-114.89	30401	310 00:44:47	-81.45	21477	310 01:32:46	-169.64	10898				
310 03:14:20	-140.39	30402	310 02:25:59	-106.74	21478	310 03:14:50	164.84	10899				
310 04:56:19	-165.88	30403	310 04:07:11	-132.04	21479	310 04:56:53	139.34	10900				
310 06:38:19	168.61	30404	310 05:48:23	-157.34	21480	310 06:38:57	113.82	10901				
310 08:20:18	143.13	30405	310 07:29:35	177.36	21481	310 08:21:01	88.30	10902				
310 10:02:18	117.62	30406	310 09:10:47	152.06	21482	310 10:03:05	62.79	10903				
310 11:44:17	92.14	30407	310 10:52:00	126.75	21483	310 11:45:09	37.27	10904				
310 13:26:17	66.63	30408	310 12:33:12	101.45	21484	310 13:27:12	11.77	10905				
310 15:08:16	41.15	30409	310 14:14:24	76.15	21485	310 15:09:16	-13.75	10906				
310 16:50:16	15.64	30410	310 15:55:36	50.85	21486	310 16:51:20	-39.27	10907				
310 18:32:15	-9.85	30411	310 17:36:48	25.55	21487	310 18:33:24	-64.79	10908				
310 20:14:15	-35.35	30412	310 19:18:00	-25.25	21488	310 20:15:28	-90.30	10909				
310 21:56:14	-60.84	30413	310 20:59:13	-25.06	21489	310 21:57:31	-115.81	10910				
310 23:38:14	-86.34	30414	310 22:40:25	-50.36	21490	310 23:39:35	-141.32	10911				
311 01:20:13	-111.83	30415	311 00:21:37	-75.66	21491	311 01:21:39	-166.84	10912				
311 03:02:13	-137.33	30416	311 02:02:49	-100.96	21492	311 03:03:43	167.64	10913				
311 04:44:12	-162.82	30417	311 03:44:01	-126.26	21493	311 04:45:47	142.12	10914				
311 06:26:12	171.68	30418	311 05:25:13	-151.56	21494	311 06:27:50	116.62	10915				
311 08:08:11	146.19	30419	311 07:06:26	-176.87	21495	311 08:09:54	91.10	10916				
311 09:30:11	120.69	30420	311 08:47:38	157.83	21496	311 09:51:58	65.58	10917				
311 11:32:10	95.20	30421	311 10:28:50	132.53	21497	311 11:34:02	40.07	10918				
311 13:14:10	69.70	30422	311 12:10:02	107.23	21498	311 13:16:06	14.55	10919				
311 14:56:09	44.21	30423	311 13:51:14	81.93	21499	311 14:58:09	-10.95	10920				
311 16:38:09	18.71	30424	311 15:32:26	56.63	21500	311 16:40:13	-36.47	10921				
311 18:20:08	-6.78	30425	311 17:13:39	31.32	21501	311 18:22:17	-61.99	10922				
311 20:02:08	-32.28	30426	311 18:54:51	6.02	21502	311 20:04:21	-87.51	10923				
311 21:44:07	-57.77	30427	311 20:36:03	-19.28	21503	311 21:46:25	-113.02	10924				
311 23:26:07	-83.27	30428	311 22:17:15	-44.57	21504	311 23:28:29	-138.54	10925				
312 01:08:06	-108.76	30429	312 01:39:39	-95.17	21506	312 01:10:32	-164.05	10926				
312 02:50:06	-134.26	30430	312 03:20:52	-120.49	21507	312 02:52:36	170.44	10927				
312 04:32:05	-159.75	30431	312 05:02:04	-145.78	21508	312 04:34:40	144.92	10928				
312 06:14:05	174.75	30432	312 06:43:16	-171.08	21509	312 06:16:44	119.40	10929				
312 07:56:04	149.26	30433	312 08:24:28	163.62	21510	312 07:58:48	93.89	10930				
312 09:38:04	123.76	30434	312 10:05:40	138.32	21511	312 09:40:51	68.38	10931				
312 11:20:03	98.27	30435	312 11:46:52	113.02	21512	312 11:22:55	42.86	10932				
312 13:02:03	72.77	30436	312 13:28:05	87.71	21513	312 13:04:59	17.35	10933				
312 14:44:02	47.28	30437	312 15:09:17	62.41	21514	312 14:47:03	-8.17	10934				
312 16:26:02	21.78	30438	312 16:50:29	37.11	21515	312 16:29:07	-33.69	10935				
312 18:08:01	-3.71	30439	312 18:31:41	11.81	21516	312 18:11:10	-59.19	10936				
312 19:50:01	-29.21	30440	312 20:12:53	-13.49	21517	312 19:53:14	-84.71	10937				
312 21:32:00	-54.70	30441	312 21:54:05	-38.79	21518	312 21:35:18	-110.23	10938				
312 23:14:00	-80.20	30442	312 23:35:18	-64.10	21519	312 23:17:22	-135.74	10939				
313 00:55:59	-105.69	30443	313 01:16:30	-89.40	21520	313 00:59:26	-161.26	10940				
313 02:37:59	-131.20	30444	313 02:57:42	-114.70	21521	313 02:41:29	173.23	10941				
313 04:19:58	-156.68	30445	313 04:38:54	-140.00	21522	313 04:23:33	147.72	10942				
313 06:01:58	177.81	30446	313 06:20:06	-165.30	21523	313 06:05:37	122.20	10943				
313 07:43:57	152.33	30447	313 08:01:18	169.40	21524	313 07:47:41	96.68	10944				
313 09:25:57	126.82	30448	313 09:42:31	144.09	21525	313 09:29:45	71.17	10945				
313 11:07:56	101.34	30449	313 11:23:43	118.79	21526	313 11:11:48	45.66	10946				
313 12:49:56	75.83	30450	313 13:04:55	93.49	21527	313 12:53:52	20.14	10947				
313 14:31:55	50.34	30451	313 14:46:07	68.19	21528	313 14:35:56	-5.37	10948				
313 16:13:55	24.84	30452	313 16:27:19	42.89	21529	313 16:18:00	-30.89	10949				
313 17:55:54	-65	30453	313 18:08:31	17.60	21530	313 18:00:04	-56.41	10950				
313 19:37:54	-26.15	30454	313 19:49:44	-7.72	21531	313 19:42:07	-81.91	10951				
313 21:19:53	-51.64	30455	313 21:30:56	-33.02	21532	313 21:24:11	-107.43	10952				
313 23:01:53	-77.14	30456	313 23:12:08	-58.32	21533	313 23:06:15	-132.95	10953				

SATELLITE C4**Ascending Node Predictions****Predicting for 183 days**

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

314 00:02:46	127.90	6773
314 01:47:39	101.55	6774
314 03:32:33	75.20	6775
314 05:17:26	48.85	6776
314 07:02:20	22.50	6777
314 08:47:13	-3.85	6778
314 10:32:07	-30.19	6779
314 12:17:00	-56.54	6780
314 14:01:54	-82.89	6781
314 15:46:47	-109.24	6782
314 17:31:41	-135.59	6783
314 19:16:34	-161.94	6784
314 21:01:28	171.72	6785
314 22:46:21	145.37	6786

SATELLITE C5**Ascending Node Predictions****Predicting for 185 days**

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

314 00:38:49	-106.22	3503
314 02:23:44	-132.58	3504
314 04:08:39	-158.94	3505
314 05:53:35	174.71	3506
314 07:38:30	148.35	3507
314 09:23:25	122.00	3508
314 11:08:21	95.64	3509
314 12:53:16	69.29	3510
314 14:38:11	42.93	3511
314 16:23:07	16.57	3512
314 18:08:02	-9.78	3513
314 19:52:57	-36.14	3514
314 21:37:52	-62.50	3515
314 23:22:48	-88.85	3516

315 00:31:15	119.02	6787
315 02:16:08	92.67	6788
315 04:01:02	66.32	6789
315 05:45:55	39.97	6790
315 07:30:49	13.63	6791
315 09:15:42	-12.72	6792
315 11:00:36	-39.07	6793
315 12:45:29	-65.42	6794
315 14:30:23	-91.77	6795
315 16:15:16	-118.12	6796
315 18:00:10	-144.46	6797
315 19:45:03	-170.81	6798
315 21:29:57	162.84	6799
315 23:14:50	136.49	6800

315 01:07:43	-115.21	3517
315 02:52:38	-141.56	3518
315 04:37:34	-167.92	3519
315 06:22:29	165.73	3520
315 08:07:24	139.37	3521
315 09:52:19	113.01	3522
315 11:37:15	86.66	3523
315 13:22:10	60.30	3524
315 15:07:05	33.95	3525
315 16:52:01	7.59	3526
315 18:36:56	-18.77	3527
315 20:21:51	-45.12	3528
315 22:06:47	-71.48	3529
315 23:51:42	-97.83	3530

316 00:59:44	110.14	6801
316 02:44:37	83.79	6802
316 04:29:31	57.44	6803
316 06:14:24	31.10	6804
316 07:59:18	4.75	6805
316 09:44:11	-21.60	6806
316 11:29:05	-47.95	6807
316 13:13:58	-74.30	6808
316 14:58:52	-100.65	6809
316 16:43:45	-127.00	6810
316 18:28:39	-153.34	6811
316 20:13:32	-179.69	6812
316 21:58:26	153.96	6813
316 23:43:19	127.61	6814

316 01:36:37	-124.19	3531
316 03:21:32	-150.55	3532
316 05:06:28	-176.90	3533
316 06:51:23	156.74	3534
316 08:36:18	130.39	3535
316 10:21:14	104.03	3536
316 12:06:09	77.68	3537
316 13:51:04	51.32	3538
316 15:36:00	24.97	3539
316 17:20:55	-1.39	3540
316 19:05:50	-27.75	3541
316 20:50:45	-54.11	3542
316 22:35:41	-80.46	3543

317 01:28:13	101.26	6815
317 03:13:06	74.91	6816
317 04:58:00	48.57	6817
317 06:42:53	22.22	6818
317 08:27:47	-4.13	6819
317 10:12:40	-30.48	6820
317 11:57:34	-56.83	6821
317 13:42:27	-83.18	6822
317 15:27:21	-109.52	6823
317 17:12:14	-135.87	6824
317 18:57:08	-162.22	6825
317 20:42:01	171.43	6826
317 22:26:55	145.08	6827

317 00:20:36	-106.82	3544
317 02:05:31	-133.17	3545
317 03:50:27	-159.53	3546
317 05:35:22	174.12	3547
317 07:20:17	147.76	3548
317 09:05:12	121.40	3549
317 10:50:08	95.05	3550
317 12:35:03	68.69	3551
317 14:19:58	42.34	3552
317 16:04:54	15.98	3553
317 17:49:49	-10.38	3554
317 19:34:44	-36.73	3555
317 21:19:40	-63.09	3556
317 23:04:35	-89.44	3557

West longitude is negative (-)

SATELLITE S2

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

314 00:43:52	-102.63	30457
314 02:25:52	-128.13	30458
314 04:07:51	-153.62	30459
314 05:49:51	-179.12	30460
314 07:31:50	155.39	30461
314 09:13:50	129.89	30462
314 10:55:49	104.40	30463
314 12:37:49	78.90	30464
314 14:19:48	53.41	30465
314 16:01:48	27.91	30466
314 17:43:47	2.42	30467
314 19:25:47	-23.08	30468
314 21:07:46	-48.57	30469
314 22:49:46	-74.07	30470

SATELLITE S3

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

314 00:53:20	-83.61	21534
314 02:34:32	-108.91	21535
314 04:15:44	-134.21	21536
314 05:56:57	-159.52	21537
314 07:38:09	175.18	21538
314 09:19:21	149.88	21539
314 11:00:33	124.58	21540
314 12:41:45	99.28	21541
314 14:22:57	73.98	21542
314 16:04:10	48.67	21543
314 17:45:22	23.37	21544
314 19:26:34	-1.93	21545
314 21:07:46	-27.23	21546
314 22:48:58	-52.53	21547

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

314 00:48:19	-158.46	10954
314 02:30:23	176.02	10955
314 04:12:26	150.51	10956
314 05:54:30	125.00	10957
314 07:36:34	99.48	10958
314 09:18:38	73.96	10959
314 11:00:42	48.44	10960
314 12:42:45	22.94	10961
314 14:24:49	-2.58	10962
314 16:06:53	-28.09	10963
314 17:48:57	-53.61	10964
314 19:31:01	-79.13	10965
314 21:13:04	-104.63	10966
314 22:55:08	-130.15	10967

315 00:31:45	-99.56	30471
315 02:13:45	-125.06	30472
315 03:55:44	-150.55	30473
315 05:37:44	-176.05	30474
315 07:19:43	158.46	30475
315 09:01:43	132.96	30476
315 10:43:42	107.47	30477
315 12:25:42	81.97	30478
315 14:07:41	56.48	30479
315 15:49:41	30.98	30480
315 17:31:40	5.49	30481
315 19:13:40	-20.01	30482
315 20:55:39	-45.50	30483
315 22:37:39	-71.00	30484

315 00:30:10	-77.83	21548
315 02:11:23	-103.14	21549
315 03:52:35	-128.44	21550
315 05:33:47	-153.74	21551
315 07:14:59	-179.04	21552
315 08:56:11	155.66	21553
315 10:37:23	130.36	21554
315 12:18:36	105.05	21555
315 13:59:48	79.75	21556
315 15:41:00	54.45	21557
315 17:22:12	29.15	21558
315 19:03:24	3.85	21559
315 20:44:37	-21.46	21560
315 22:25:49	-46.76	21561

315 00:37:12	-155.67	10968
315 02:19:16	178.82	10969
315 04:01:20	152.30	10970
315 05:43:24	127.78	10971
315 07:25:27	102.28	10972
315 09:07:31	76.76	10973
315 10:49:35	51.24	10974
315 12:31:39	25.72	10975
315 14:13:43	.21	10976
315 15:55:46	-25.30	10977
315 17:37:50	-50.81	10978
315 19:19:54	-76.33	10979
315 21:01:58	-101.85	10980
315 22:44:02	-127.37	10981

316 00:19:38	-96.49	30485
316 02:01:38	-122.00	30486
316 03:43:37	-147.48	30487
316 05:25:37	-172.99	30488
316 07:07:36	161.53	30489
316 08:49:36	136.02	30490
316 10:31:35	110.54	30491
316 12:13:35	85.03	30492
316 13:55:34	59.55	30493
316 15:37:34	34.04	30494
316 17:19:34	8.54	30495
316 19:01:33	-16.95	30496
316 20:43:33	-42.45	30497
316 22:25:32	-67.94	30498

316 00:07:01	-72.06	21562
316 01:48:13	-97.35	21563
316 03:29:25	-122.65	21564
316 05:10:37	-147.95	21565
316 06:51:50	-173.27	21566
316 08:33:02	161.44	21567
316 10:14:14	136.14	21568
316 11:55:26	110.84	21569
316 13:36:38	85.54	21570
316 15:17:50	60.24	21571
316 16:59:03	34.93	21572
316 18:40:15	9.63	21573
316 20:21:27	-15.67	21574
316 22:02:39	-40.97	21575
316 23:43:51	-66.27	21576

316 00:26:05	-152.87	10982
316 02:08:09	-178.39	10983
316 03:50:13	156.10	10984
316 05:32:17	130.58	10985
316 07:14:21	105.06	10986
316 08:56:24	79.56	10987
316 10:38:28	54.04	10988
316 12:20:32	28.52	10989
316 14:02:36	3.00	10990
316 15:44:40	-22.51	10991
316 17:26:43	-48.02	10992
316 19:08:47	-73.53	10993
316 20:50:51	-99.05	10994
316 22:32:55	-124.57	10995

317 00:07:32	-93.44	30499
317 01:49:31	-118.93	30500
317 03:31:31	-144.43	30501
317 05:13:30	-169.92	30502
317 06:55:30	164.58	30503
317 08:37:29	139.09	30504
317 10:19:29	113.59	30505
317 12:01:28	88.10	30506
317 13:43:28	62.60	30507
317 15:25:27	37.11	30508
317 17:07:27	11.61	30509
317 18:49:26	-13.88	30510
317 20:31:26	-39.38	30511
317 22:13:25	-64.87	30512
317 23:55:25	-90.37	30513

317 01:25:03	-91.57	21577
317 03:06:16	-116.88	21578
317 04:47:28	-142.18	21579
317 06:28:40	-167.48	21580
317 08:09:52	167.22	21581
317 09:51:04	141.92	21582
317 11:32:16	116.62	21583
317 13:13:29	91.31	21584
317 14:54:41	66.01	21585
317 16:35:53	40.71	21586
317 18:17:05	15.41	21587
317 19:58:17	-9.89	21588
317 21:39:29	-35.18	21589
317 23:20:42	-60.50	21590

317 00:14:59	-150.09	10996
317 01:57:02	-175.59	10997
317 03:39:06	158.89	10998
317 05:21:10	133.38	10999
317 07:03:14	107.86	11000
317 08:45:18	82.34	11001
317 10:27:21	56.84	11002
317 12:09:25	31.32	11003
317 13:51:29	5.80	11004
317 15:33:33	-19.72	11005
317 17:15:37	-45.23	11006
317 18:57:40	-70.74	11007
317 20:39:44	-96.25	11008
317 22:21:48	-121.77	11009

SATELLITE C4**Ascending Node Predictions****Predicting for 183 days**

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

318 00:11:48	118.73	6828
318 01:56:42	92.39	6829
318 03:41:35	66.04	6830
318 05:26:29	39.69	6831
318 07:11:22	13.34	6832
318 08:56:16	-13.01	6833
318 10:41:09	-39.36	6834
318 12:26:03	-65.70	6835
318 14:10:56	-92.05	6836
318 15:55:50	-118.40	6837
318 17:40:43	-144.75	6838
318 19:25:37	-171.10	6839
318 21:10:31	162.55	6840
318 22:55:24	136.20	6841

SATELLITE C5**Ascending Node Predictions****Predicting for 185 days**

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

318 00:49:30	-115.80	3558
318 02:34:25	-142.16	3559
318 04:19:21	-168.51	3560
318 06:04:16	165.13	3561
318 07:49:11	138.78	3562
318 09:34:07	112.42	3563
318 11:19:02	86.07	3564
318 13:03:57	59.71	3565
318 14:48:53	33.35	3566
318 16:33:48	7.00	3567
318 18:18:43	-19.36	3568
318 20:03:38	-45.72	3569
318 21:48:34	-72.07	3570
318 23:33:29	-98.43	3571

319 00:40:18	109.86	6842
319 02:25:11	83.51	6843
319 04:10:05	57.16	6844
319 05:54:58	30.81	6845
319 07:39:52	4.46	6846
319 09:24:45	-21.89	6847
319 11:09:39	-48.23	6848
319 12:54:32	-74.58	6849
319 14:39:26	-100.93	6850
319 16:24:19	-127.28	6851
319 18:09:13	-153.63	6852
319 19:54:06	-179.98	6853
319 21:39:00	153.68	6854
319 23:23:53	127.33	6855

319 01:18:24	-124.78	3572
319 03:03:20	-151.14	3573
319 04:48:15	-177.49	3574
319 06:33:10	156.15	3575
319 08:18:06	129.80	3576
319 10:03:01	103.44	3577
319 11:47:56	77.08	3578
319 13:32:52	50.73	3579
319 15:17:47	24.37	3580
319 17:02:42	-1.99	3581
319 18:47:37	-28.34	3582
319 20:32:33	-54.70	3583
319 22:17:23	-81.05	3584

320 01:08:47	100.98	6856
320 02:53:40	74.63	6857
320 04:38:34	48.28	6858
320 06:23:27	21.93	6859
320 08:08:21	-4.41	6860
320 09:53:14	-30.76	6861
320 11:38:08	-57.11	6862
320 13:23:01	-83.46	6863
320 15:07:55	-109.81	6864
320 16:52:48	-136.16	6865
320 18:37:42	-162.51	6866
320 20:22:35	171.14	6867
320 22:07:29	144.80	6868
320 23:52:22	118.45	6869

320 00:02:23	-107.41	3585
320 01:47:19	-133.76	3586
320 03:32:14	-160.12	3587
320 05:17:09	173.52	3588
320 07:02:05	147.17	3589
320 08:47:00	120.81	3590
320 10:31:55	94.45	3591
320 12:16:50	68.10	3592
320 14:01:46	41.74	3593
320 15:46:41	15.39	3594
320 17:31:36	-10.97	3595
320 19:16:32	-37.32	3596
320 21:01:27	-63.68	3597
320 22:46:22	-90.04	3598

321 01:37:16	92.10	6870
321 03:22:09	65.75	6871
321 05:07:03	39.40	6872
321 06:51:56	13.05	6873
321 08:36:50	-13.29	6874
321 10:21:43	-39.64	6875
321 12:06:37	-65.99	6876
321 13:51:30	-92.34	6877
321 15:36:24	-118.69	6878
321 17:21:17	-145.04	6879
321 19:06:11	-171.38	6880
321 20:51:04	162.27	6881
321 22:35:58	135.92	6882

321 00:31:18	-116.39	3599
321 02:16:13	-142.75	3600
321 04:01:08	-169.10	3601
321 05:46:03	164.54	3602
321 07:30:59	138.18	3603
321 09:15:54	111.83	3604
321 11:00:49	85.47	3605
321 12:45:45	59.12	3606
321 14:30:40	32.76	3607
321 16:15:35	6.40	3608
321 18:00:31	-19.95	3609
321 19:45:26	-46.31	3610
321 21:30:21	-72.66	3611
321 23:15:17	-99.02	3612

SATELLITE S2
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

 318 01:37:24 -115.86 30514
 318 03:19:24 -141.36 30515
 318 05:01:23 -166.85 30516
 318 06:43:23 167.65 30517
 318 08:25:22 142.16 30518
 318 10:07:22 116.66 30519
 318 11:49:21 91.17 30520
 318 13:31:21 65.67 30521
 318 15:13:20 40.18 30522
 318 16:55:20 14.67 30523
 318 18:37:19 -10.81 30524
 318 20:19:19 -36.32 30525
 318 22:01:18 -61.80 30526
 318 23:43:18 -87.31 30527

SATELLITE S3
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

 318 01:01:54 -85.80 21591
 318 02:43:06 -111.09 21592
 318 04:24:18 -136.39 21593
 318 06:05:30 -161.69 21594
 318 07:46:42 173.01 21595
 318 09:27:55 147.70 21596
 318 11:09:07 122.40 21597
 318 12:50:19 97.10 21598
 318 14:31:31 71.80 21599
 318 16:12:43 46.50 21600
 318 17:53:55 21.20 21601
 318 19:35:08 -4.11 21602
 318 21:16:20 -29.41 21603
 318 22:57:32 -54.71 21604

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

 318 00:03:52 -147.29 11010
 318 01:45:56 -172.81 11011
 318 03:28:00 161.68 11012
 318 05:10:03 136.17 11013
 318 06:52:07 110.66 11014
 318 08:34:11 85.14 11015
 318 10:16:15 59.62 11016
 318 11:58:19 34.10 11017
 318 13:40:22 8.60 11018
 318 15:22:26 -16.92 11019
 318 17:04:30 -42.44 11020
 318 18:46:34 -67.95 11021
 318 20:28:38 -93.47 11022
 318 22:10:41 -118.97 11023
 318 23:52:45 -144.49 11024

 319 01:25:17 -112.79 30528
 319 03:07:17 -138.30 30529
 319 04:49:16 -163.78 30530
 319 06:31:16 170.71 30531
 319 08:13:15 145.22 30532
 319 09:55:15 119.72 30533
 319 11:37:14 94.23 30534
 319 13:19:14 68.73 30535
 319 15:01:13 43.24 30536
 319 16:43:13 17.74 30537
 319 18:25:12 -7.75 30538
 319 20:07:12 -33.25 30539
 319 21:49:11 -58.74 30540
 319 23:31:11 -84.24 30541

 319 00:38:44 -80.01 21605
 319 02:19:56 -105.31 21606
 319 04:01:08 -130.61 21607
 319 05:42:21 -155.92 21608
 319 07:23:33 178.78 21609
 319 09:04:45 153.48 21610
 319 10:45:57 128.18 21611
 319 12:27:09 102.88 21612
 319 14:08:21 77.58 21613
 319 15:49:34 52.27 21614
 319 17:30:46 26.97 21615
 319 19:11:58 1.67 21616
 319 20:53:10 -23.63 21617
 319 22:34:22 -48.92 21618

 319 01:34:49 -170.01 11025
 319 03:16:53 164.47 11026
 319 04:58:57 138.96 11027
 319 06:41:00 113.45 11028
 319 08:23:04 87.94 11029
 319 10:05:08 62.42 11030
 319 11:47:12 36.90 11031
 319 13:29:16 11.38 11032
 319 15:11:19 -14.12 11033
 319 16:53:23 -39.64 11034
 319 18:35:27 -65.16 11035
 319 20:17:31 -90.67 11036
 319 21:59:35 -116.19 11037
 319 23:41:38 -141.69 11038

 320 01:13:10 -109.73 30542
 320 02:55:10 -135.23 30543
 320 04:37:09 -160.72 30544
 320 06:19:09 173.78 30545
 320 08:01:08 148.29 30546
 320 09:43:08 122.79 30547
 320 11:25:07 97.30 30548
 320 13:07:07 71.80 30549
 320 14:49:06 46.31 30550
 320 16:31:06 20.81 30551
 320 18:13:05 -4.68 30552
 320 19:55:05 -30.18 30553
 320 21:37:04 -55.67 30554
 320 23:19:04 -81.17 30555

 320 00:15:34 -74.22 21619
 320 01:56:47 -99.54 21620
 320 03:37:59 -124.83 21621
 320 05:19:11 -150.13 21622
 320 07:00:23 -175.43 21623
 320 08:41:35 159.27 21624
 320 10:22:47 133.97 21625
 320 12:04:00 108.66 21626
 320 13:45:12 83.36 21627
 320 15:26:24 58.06 21628
 320 17:07:36 32.76 21629
 320 18:48:48 7.46 21630
 320 20:30:00 -17.84 21631
 320 22:11:13 -43.15 21632
 320 23:52:25 -68.45 21633

 320 01:23:42 -167.21 11039
 320 03:05:46 167.27 11040
 320 04:47:50 141.75 11041
 320 06:29:54 116.24 11042
 320 08:11:57 90.73 11043
 320 09:54:01 65.22 11044
 320 11:36:05 39.70 11045
 320 13:18:09 14.18 11046
 320 15:00:13 -11.34 11047
 320 16:42:17 -36.85 11048
 320 18:24:20 -62.36 11049
 320 20:06:24 -87.87 11050
 320 21:48:28 -113.39 11051
 320 23:30:32 -138.91 11052

 321 01:01:03 -106.66 30556
 321 02:43:03 -132.16 30557
 321 04:25:02 -157.65 30558
 321 06:07:02 176.85 30559
 321 07:49:01 151.36 30560
 321 09:31:01 125.86 30561
 321 11:13:00 100.37 30562
 321 12:55:00 74.87 30563
 321 14:36:59 49.38 30564
 321 16:18:59 23.88 30565
 321 18:00:58 -1.61 30566
 321 19:42:58 -27.11 30567
 321 21:24:57 -52.60 30568
 321 23:06:57 -78.11 30569

 321 01:33:37 -93.75 21634
 321 03:14:49 -119.05 21635
 321 04:56:01 -144.35 21636
 321 06:37:13 -169.65 21637
 321 08:18:26 165.04 21638
 321 09:59:38 139.74 21639
 321 11:40:50 114.44 21640
 321 13:22:02 89.14 21641
 321 15:03:14 63.84 21642
 321 16:44:26 38.55 21643
 321 18:25:39 13.23 21644
 321 20:06:51 -12.07 21645
 321 21:48:03 -37.37 21646
 321 23:29:15 -62.66 21647

 321 01:12:36 -164.43 11053
 321 02:54:39 170.07 11054
 321 04:36:43 144.55 11055
 321 06:18:47 119.03 11056
 321 08:00:51 93.52 11057
 321 09:42:55 68.00 11058
 321 11:24:58 42.50 11059
 321 13:07:02 16.98 11060
 321 14:49:06 -8.54 11061
 321 16:31:10 -34.06 11062
 321 18:13:14 -59.57 11063
 321 19:55:17 -85.08 11064
 321 21:37:21 -110.59 11065
 321 23:19:25 -136.11 11066

SATELLITE C4

Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

322 00:20:51	109.57	6883
322 02:05:45	83.22	6884
322 03:50:38	56.87	6885
322 05:35:32	30.53	6886
322 07:20:25	4.18	6887
322 09:05:19	-22.17	6888
322 10:50:12	-48.52	6889
322 12:35:06	-74.87	6890
322 14:19:59	-101.22	6891
322 16:04:53	-127.57	6892
322 17:49:46	-153.92	6893
322 19:34:40	179.74	6894
322 21:19:33	153.39	6895
322 23:04:27	127.04	6896

SATELLITE C5

Ascending Node Predictions

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

322 01:00:12	-125.38	3613
322 02:45:07	-151.73	3614
322 04:30:02	-178.09	3615
322 06:14:58	155.56	3616
322 07:59:53	129.20	3617
322 09:44:48	102.84	3618
322 11:29:44	76.49	3619
322 13:14:39	50.13	3620
322 14:59:34	23.78	3621
322 16:44:30	-2.58	3622
322 18:29:25	-28.93	3623
322 20:14:20	-55.29	3624
322 21:59:15	-81.65	3625
322 23:44:11	-108.00	3626

323 00:49:20	100.69	6897
323 02:34:14	74.34	6898
323 04:19:07	47.99	6899
323 06:04:01	21.65	6900
323 07:48:54	-4.70	6901
323 09:33:48	-31.05	6902
323 11:18:41	-57.40	6903
323 13:03:35	-83.75	6904
323 14:48:28	-110.10	6905
323 16:33:22	-136.44	6906
323 18:18:15	-162.79	6907
323 20:03:09	170.86	6908
323 21:48:02	144.51	6909
323 23:32:56	118.16	6910

323 01:29:06	-134.36	3627
323 03:14:01	-160.72	3628
323 04:58:57	172.93	3629
323 06:43:52	146.57	3630
323 08:28:47	120.22	3631
323 10:13:43	93.86	3632
323 11:58:38	67.51	3633
323 13:43:33	41.15	3634
323 15:28:29	14.79	3635
323 17:13:24	-11.56	3636
323 18:58:19	-37.92	3637
323 20:43:14	-64.28	3638
323 22:28:10	-90.63	3639

324 01:17:49	91.81	6911
324 03:02:43	65.47	6912
324 04:47:36	39.12	6913
324 06:32:30	12.77	6914
324 08:17:23	-13.58	6915
324 10:02:17	-39.93	6916
324 11:47:10	-66.28	6917
324 13:32:04	-92.63	6918
324 15:16:57	-118.98	6919
324 17:01:51	-145.32	6920
324 18:46:44	-171.67	6921
324 20:31:38	161.98	6922
324 22:16:31	135.63	6923

324 00:13:05	-116.99	3640
324 01:58:00	-143.34	3641
324 03:42:56	-169.70	3642
324 05:27:51	163.95	3643
324 07:12:46	137.59	3644
324 08:57:42	111.23	3645
324 10:42:37	84.88	3646
324 12:27:32	58.52	3647
324 14:12:28	32.17	3648
324 15:57:23	5.81	3649
324 17:42:18	-20.55	3650
324 19:27:14	-46.90	3651
324 21:12:09	-73.26	3652
324 22:57:04	-99.61	3653

325 00:01:25	109.28	6924
325 01:46:18	82.93	6925
325 03:31:12	56.59	6926
325 05:16:05	30.24	6927
325 07:00:59	3.89	6928
325 08:45:52	-22.46	6929
325 10:30:46	-48.81	6930
325 12:15:39	-75.16	6931
325 14:00:33	-101.50	6932
325 15:45:26	-127.85	6933
325 17:30:20	-154.20	6934
325 19:15:13	179.95	6935
325 21:00:07	153.10	6936
325 22:45:00	126.75	6937

325 00:41:59	-125.97	3654
325 02:26:55	-152.33	3655
325 04:11:50	-178.68	3656
325 05:56:45	154.96	3657
325 07:41:41	128.61	3658
325 09:26:36	102.25	3659
325 11:11:31	75.89	3660
325 12:56:27	49.54	3661
325 14:41:22	23.18	3662
325 16:26:17	-3.17	3663
325 18:11:13	-29.53	3664
325 19:56:08	-55.89	3665
325 21:41:03	-82.24	3666
325 23:25:58	-108.60	3667

SATELLITE S2
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

 322 00:48:56 -103.59 30570
 322 02:30:56 -129.10 30571
 322 04:12:55 -154.58 30572
 322 05:54:55 179.91 30573
 322 07:36:54 154.43 30574
 322 09:18:54 128.92 30575
 322 11:00:53 103.44 30576
 322 12:42:53 77.93 30577
 322 14:24:52 52.44 30578
 322 16:06:52 26.94 30579
 322 17:48:51 1.45 30580
 322 19:30:51 -24.05 30581
 322 21:12:50 -49.54 30582
 322 22:54:50 -75.04 30583

SATELLITE S3
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

 322 01:10:27 -87.96 21648
 322 02:51:39 -113.26 21649
 322 04:32:52 -138.57 21650
 322 06:14:04 -163.87 21651
 322 07:55:16 170.83 21652
 322 09:36:28 145.53 21653
 322 11:17:40 120.23 21654
 322 12:58:52 94.93 21655
 322 14:40:05 69.62 21656
 322 16:21:17 44.32 21657
 322 18:02:29 19.02 21658
 322 19:43:41 -6.28 21659
 322 21:24:53 -31.58 21660
 322 23:06:05 -56.88 21661

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

 322 01:01:29 -161.63 11067
 322 02:43:33 172.85 11068
 322 04:25:36 147.35 11069
 322 06:07:40 121.83 11070
 322 07:49:44 96.31 11071
 322 09:31:48 70.80 11072
 322 11:13:52 45.28 11073
 322 12:55:55 19.78 11074
 322 14:37:59 -5.74 11075
 322 16:20:03 -31.26 11076
 322 18:02:07 -56.78 11077
 322 19:44:11 -82.29 11078
 322 21:26:15 -107.81 11079
 322 23:08:18 -133.31 11080

 323 00:36:49 -100.53 30584
 323 02:18:49 -126.03 30585
 323 04:00:48 -151.52 30586
 323 05:42:48 -177.02 30587
 323 07:24:47 157.49 30588
 323 09:06:47 131.99 30589
 323 10:48:46 106.50 30590
 323 12:30:46 81.00 30591
 323 14:12:45 55.51 30592
 323 15:54:45 30.01 30593
 323 17:36:44 4.52 30594
 323 19:18:44 -20.98 30595
 323 21:00:43 -46.47 30596
 323 22:42:43 -71.97 30597

 323 00:47:18 -82.19 21662
 323 02:28:30 -107.49 21663
 323 04:09:42 -132.79 21664
 323 05:50:54 -158.09 21665
 323 07:32:06 176.61 21666
 323 09:13:18 151.31 21667
 323 10:54:31 126.00 21668
 323 12:35:43 100.70 21669
 323 14:16:55 75.40 21670
 323 15:58:07 50.10 21671
 323 17:39:19 24.81 21672
 323 19:20:31 -49 21673
 323 21:01:44 -25.81 21674
 323 22:42:56 -51.11 21675

 323 00:50:22 -158.83 11081
 323 02:32:26 175.65 11082
 323 04:14:30 150.13 11083
 323 05:56:34 124.62 11084
 323 07:38:37 99.11 11085
 323 09:20:41 73.59 11086
 323 11:02:45 48.08 11087
 323 12:44:49 22.56 11088
 323 14:26:53 -2.96 11089
 323 16:08:56 -28.46 11090
 323 17:51:00 -53.98 11091
 323 19:33:04 -79.50 11092
 323 21:15:08 -105.01 11093
 323 22:57:12 -130.53 11094

 324 00:24:42 -97.46 30598
 324 02:06:42 -122.96 30599
 324 03:48:42 -148.46 30600
 324 05:30:41 -173.95 30601
 324 07:12:41 160.55 30602
 324 08:54:40 135.06 30603
 324 10:36:40 109.56 30604
 324 12:18:39 84.07 30605
 324 14:00:39 58.57 30606
 324 15:42:38 33.08 30607
 324 17:24:38 7.58 30608
 324 19:06:37 -17.91 30609
 324 20:48:37 -43.42 30610
 324 22:30:36 -68.90 30611

 324 00:24:08 -76.40 21676
 324 02:05:20 -101.70 21677
 324 03:46:32 -127.00 21678
 324 05:27:45 -152.31 21679
 324 07:08:57 -177.61 21680
 324 08:50:09 157.09 21681
 324 10:31:21 131.79 21682
 324 12:12:33 106.49 21683
 324 13:53:45 81.19 21684
 324 15:34:58 55.88 21685
 324 17:16:10 30.58 21686
 324 18:57:22 5.28 21687
 324 20:38:34 -20.02 21688
 324 22:19:46 -45.32 21689

 324 00:39:15 -156.03 11095
 324 02:21:19 178.45 11096
 324 04:03:23 152.93 11097
 324 05:45:27 127.41 11098
 324 07:27:31 101.90 11099
 324 09:09:34 76.39 11100
 324 10:51:38 50.87 11101
 324 12:33:42 25.36 11102
 324 14:15:46 -.16 11103
 324 15:57:50 -25.68 11104
 324 17:39:54 -51.19 11105
 324 19:21:57 -76.70 11106
 324 21:04:01 -102.22 11107
 324 22:46:05 -127.73 11108

 325 00:12:36 -94.41 30612
 325 01:54:35 -119.89 30613
 325 03:36:35 -145.40 30614
 325 05:18:34 -170.88 30615
 325 07:00:34 163.61 30616
 325 08:42:33 138.13 30617
 325 10:24:33 112.62 30618
 325 12:06:32 87.13 30619
 325 13:48:32 61.63 30620
 325 15:30:31 36.14 30621
 325 17:12:31 10.64 30622
 325 18:54:30 -14.85 30623
 325 20:36:30 -40.35 30624
 325 22:18:29 -65.84 30625

 325 00:00:58 -70.62 21690
 325 01:42:11 -95.93 21691
 325 03:23:23 -121.23 21692
 325 05:04:35 -146.53 21693
 325 06:45:47 -171.83 21694
 325 08:26:59 162.87 21695
 325 10:08:11 137.57 21696
 325 11:49:24 112.26 21697
 325 13:30:36 86.96 21698
 325 15:11:48 61.66 21699
 325 16:53:00 36.36 21700
 325 18:34:12 11.07 21701
 325 20:15:24 -14.23 21702
 325 21:56:37 -39.55 21703
 325 23:37:49 -64.85 21704

 325 00:28:09 -153.25 11109
 325 02:10:13 -178.77 11110
 325 03:52:16 155.73 11111
 325 05:34:20 130.21 11112
 325 07:16:24 104.69 11113
 325 08:58:28 79.18 11114
 325 10:40:32 53.66 11115
 325 12:22:35 28.16 11116
 325 14:04:39 2.64 11117
 325 15:46:43 -22.88 11118
 325 17:28:47 -48.40 11119
 325 19:10:51 -73.91 11120
 325 20:52:54 -99.42 11121
 325 22:34:58 -124.94 11122

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

326 00:29:54	100.41	6938
326 02:14:47	74.06	6939
326 03:59:41	47.71	6940
326 05:44:34	21.36	6941
326 07:29:28	-4.99	6942
326 09:14:21	-31.34	6943
326 10:59:15	-57.69	6944
326 12:44:08	-84.04	6945
326 14:29:02	-110.38	6946
326 16:13:55	-136.73	6947
326 17:58:49	-163.08	6948
326 19:43:42	-170.57	6949
326 21:28:36	-149.22	6950
326 23:13:29	-117.87	6951

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

326 01:10:54	-134.95	3668
326 02:55:49	-161.31	3669
326 04:40:44	172.33	3670
326 06:25:40	145.98	3671
326 08:10:35	119.62	3672
326 09:55:30	93.27	3673
326 11:40:26	66.91	3674
326 13:25:21	40.55	3675
326 15:10:16	14.20	3676
326 16:55:12	-12.16	3677
326 18:40:07	-38.51	3678
326 20:25:02	-64.87	3679
326 22:09:58	-91.22	3680
326 23:54:53	-117.58	3681

327 00:58:23	91.53	6952
327 02:43:16	65.18	6953
327 04:28:10	38.83	6954
327 06:13:03	12.48	6955
327 07:57:57	-13.87	6956
327 09:42:50	-40.22	6957
327 11:27:44	-66.56	6958
327 13:12:38	-92.91	6959
327 14:57:31	-119.26	6960
327 16:42:25	-145.61	6961
327 18:27:18	-171.96	6962
327 20:12:12	161.69	6963
327 21:57:05	135.34	6964
327 23:41:59	109.00	6965

327 01:39:48	-143.94	3682
327 03:24:43	-170.30	3683
327 05:09:39	163.35	3684
327 06:54:34	136.99	3685
327 08:39:29	110.64	3686
327 10:24:25	84.28	3687
327 12:09:20	57.93	3688
327 13:54:15	31.57	3689
327 15:39:11	5.22	3690
327 17:24:06	-21.14	3691
327 19:09:01	-47.50	3692
327 20:53:57	-73.85	3693
327 22:38:52	-100.21	3694

328 01:26:52	82.65	6966
328 03:11:46	56.30	6967
328 04:56:39	29.95	6968
328 06:41:33	3.60	6969
328 08:26:26	-22.75	6970
328 10:11:20	-49.09	6971
328 11:56:13	-75.44	6972
328 13:41:07	-101.79	6973
328 15:26:00	-128.14	6974
328 17:10:54	-154.49	6975
328 18:55:47	179.16	6976
328 20:40:41	152.82	6977
328 22:25:34	126.47	6978

328 00:23:47	-126.57	3695
328 02:08:43	-152.92	3696
328 03:53:38	-179.28	3697
328 05:38:33	154.37	3698
328 07:23:29	128.01	3699
328 09:08:24	101.65	3700
328 10:53:19	75.30	3701
328 12:38:14	48.94	3702
328 14:23:10	22.59	3703
328 16:08:05	-3.77	3704
328 17:53:00	-30.13	3705
328 19:37:56	-56.48	3706
328 21:22:51	-82.84	3707
328 23:07:46	-109.19	3708

329 00:10:28	100.12	6979
329 01:55:21	73.77	6980
329 03:40:15	47.42	6981
329 05:25:08	21.07	6982
329 07:10:02	-5.28	6983
329 08:54:55	-31.63	6984
329 10:39:49	-57.97	6985
329 12:24:42	-84.32	6986
329 14:09:36	-110.67	6987
329 15:54:29	-137.02	6988
329 17:39:23	-163.37	6989
329 19:24:16	170.28	6990
329 21:09:10	143.94	6991
329 22:54:03	117.59	6992

329 00:52:42	-135.55	3709
329 02:37:37	-161.91	3710
329 04:22:32	171.74	3711
329 06:07:28	145.38	3712
329 07:52:23	119.03	3713
329 09:37:18	92.67	3714
329 11:22:14	66.32	3715
329 13:07:09	39.96	3716
329 14:52:04	13.60	3717
329 16:37:00	-12.75	3718
329 18:21:55	-39.11	3719
329 20:06:50	-65.47	3720
329 21:51:45	-91.82	3721
329 23:36:41	-118.18	3722

SATELLITE S2
Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

326 00:00:29	-91.34	30626
326 01:42:28	-116.83	30627
326 03:24:28	-142.33	30628
326 05:06:27	-167.82	30629
326 06:48:27	166.68	30630
326 08:30:26	141.19	30631
326 10:12:26	115.69	30632
326 11:54:25	90.20	30633
326 13:36:25	64.70	30634
326 15:18:24	39.21	30635
326 17:00:24	13.71	30636
326 18:42:23	-11.78	30637
326 20:24:23	-37.28	30638
326 22:06:22	-62.77	30639
326 23:48:22	-88.27	30640

SATELLITE S3
Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

326 01:19:01	-90.14	21705
326 03:00:13	-115.44	21706
326 04:41:25	-140.74	21707
326 06:22:37	-166.04	21708
326 08:03:50	168.65	21709
326 09:45:02	143.35	21710
326 11:26:14	118.05	21711
326 13:07:26	92.75	21712
326 14:48:38	67.45	21713
326 16:29:50	42.15	21714
326 18:11:03	16.84	21715
326 19:52:15	-8.46	21716
326 21:33:27	-33.76	21717
326 23:14:39	-59.06	21718

SATELLITE S4
Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

326 00:17:02	-150.45	11123
326 01:59:06	-175.97	11124
326 03:41:10	158.51	11125
326 05:23:13	133.01	11126
326 07:05:17	107.49	11127
326 08:47:21	81.97	11128
326 10:29:25	56.46	11129
326 12:11:29	30.94	11130
326 13:53:33	5.42	11131
326 15:35:36	-20.08	11132
326 17:17:40	-45.60	11133
326 18:59:44	-71.12	11134
326 20:41:48	-96.63	11135
326 22:23:52	-122.15	11136

327 01:30:21	-113.76	30641
327 03:12:21	-139.26	30642
327 04:54:20	-164.75	30643
327 06:36:20	169.75	30644
327 08:18:19	144.26	30645
327 10:00:19	118.76	30646
327 11:42:18	93.27	30647
327 13:24:18	67.77	30648
327 15:06:17	42.28	30649
327 16:48:17	16.78	30650
327 18:30:16	-8.71	30651
327 20:12:16	-34.21	30652
327 21:54:15	-59.70	30653
327 23:36:15	-85.20	30654

327 00:55:51	-84.36	21719
327 02:37:03	-109.66	21720
327 04:18:16	-134.97	21721
327 05:59:28	-160.27	21722
327 07:40:40	174.43	21723
327 09:21:52	149.13	21724
327 11:03:04	123.83	21725
327 12:44:16	98.53	21726
327 14:25:29	73.22	21727
327 16:06:41	47.92	21728
327 17:47:53	22.62	21729
327 19:29:05	-2.67	21730
327 21:10:17	-27.97	21731
327 22:51:29	-53.27	21732

327 00:05:55	-147.66	11137
327 01:47:59	-173.17	11138
327 03:30:03	161.31	11139
327 05:12:07	135.79	11140
327 06:54:11	110.28	11141
327 08:36:14	84.77	11142
327 10:18:18	59.25	11143
327 12:00:22	33.74	11144
327 13:42:26	8.22	11145
327 15:24:30	-17.30	11146
327 17:06:33	-42.80	11147
327 18:48:37	-68.32	11148
327 20:30:41	-93.84	11149
327 22:12:45	-119.35	11150
327 23:54:49	-144.87	11151

328 01:18:14	-110.69	30655
328 03:00:14	-136.19	30656
328 04:42:13	-161.68	30657
328 06:24:13	172.82	30658
328 08:06:12	147.33	30659
328 09:48:12	121.83	30660
328 11:30:11	96.34	30661
328 13:12:11	70.84	30662
328 14:54:10	45.35	30663
328 16:36:10	19.84	30664
328 18:18:10	-5.66	30665
328 20:00:09	-31.15	30666
328 21:42:09	-56.65	30667
328 23:24:08	-82.14	30668

328 00:32:42	-78.59	21733
328 02:13:54	-103.88	21734
328 03:55:06	-129.18	21735
328 05:36:18	-154.48	21736
328 07:17:30	-179.78	21737
328 08:58:42	154.92	21738
328 10:39:55	129.61	21739
328 12:21:07	104.31	21740
328 14:02:19	79.01	21741
328 15:43:31	53.71	21742
328 17:24:43	28.41	21743
328 19:05:55	3.11	21744
328 20:47:08	-22.20	21745
328 22:28:20	-47.50	21746

328 01:36:52	-170.37	11152
328 03:18:56	164.11	11153
328 05:01:00	138.59	11154
328 06:43:04	113.07	11155
328 08:25:08	87.56	11156
328 10:07:11	62.05	11157
328 11:49:15	36.53	11158
328 13:31:19	11.02	11159
328 15:13:23	-14.50	11160
328 16:55:27	-40.02	11161
328 18:37:31	-65.53	11162
328 20:19:34	-91.04	11163
328 22:01:38	-116.56	11164
328 23:43:42	-142.07	11165

329 01:06:08	-107.64	30669
329 02:43:07	-133.13	30670
329 04:30:07	-158.63	30671
329 06:12:06	175.88	30672
329 07:54:06	150.38	30673
329 09:36:05	124.89	30674
329 11:18:05	99.39	30675
329 13:00:04	73.90	30676
329 14:42:04	48.40	30677
329 16:24:03	22.91	30678
329 18:06:03	-2.59	30679
329 19:48:02	-28.08	30680
329 21:30:02	-53.58	30681
329 23:12:01	-79.07	30682

329 00:09:32	-72.80	21747
329 01:50:44	-98.10	21748
329 03:31:56	-123.40	21749
329 05:13:08	-148.70	21750
329 06:54:21	-174.01	21751
329 08:35:33	160.69	21752
329 10:16:45	135.39	21753
329 11:57:57	110.09	21754
329 13:39:09	84.79	21755
329 15:20:21	59.50	21756
329 17:01:34	34.18	21757
329 18:42:46	8.88	21758
329 20:23:58	-16.41	21759
329 22:05:10	-41.71	21760
329 23:46:22	-67.01	21761

329 01:25:46	-167.59	11166
329 03:07:50	166.89	11167
329 04:49:53	141.39	11168
329 06:31:57	115.87	11169
329 08:14:01	90.35	11170
329 09:56:05	64.84	11171
329 11:38:09	39.32	11172
329 13:20:12	13.81	11173
329 15:02:16	-11.70	11174
329 16:44:20	-37.22	11175
329 18:26:24	-62.74	11176
329 20:08:28	-88.25	11177
329 21:50:31	-113.76	11178
329 23:32:35	-139.28	11179

SATELLITE C4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

330 00:38:57	91.24	6993
330 02:23:50	64.89	6994
330 04:08:44	38.54	6995
330 05:53:37	12.19	6996
330 07:38:31	-14.15	6997
330 09:23:24	-40.50	6998
330 11:08:18	-66.85	6999
330 12:53:11	-93.20	7000
330 14:38:05	-119.55	7001
330 16:22:58	-145.90	7002
330 18:07:52	-172.25	7003
330 19:52:45	161.40	7004
330 21:37:39	135.06	7005
330 23:22:32	108.71	7006

SATELLITE C5
Ascending Node Predictions

Predicting for 185 days

TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

330 01:21:36	-144.53	3723
330 03:06:31	-170.89	3724
330 04:51:27	162.76	3725
330 06:36:22	136.40	3726
330 08:21:17	110.04	3727
330 10:06:13	83.69	3728
330 11:51:08	57.33	3729
330 13:36:03	30.97	3730
330 15:20:59	4.62	3731
330 17:05:54	-21.74	3732
330 18:50:49	-48.09	3733
330 20:35:45	-74.45	3734
330 22:20:40	-100.81	3735

331 01:07:26	82.36	7007
331 02:52:19	56.01	7008
331 04:37:13	29.66	7009
331 06:22:06	3.31	7010
331 08:07:00	-23.03	7011
331 09:51:54	-49.38	7012
331 11:36:47	-75.73	7013
331 13:21:41	-102.08	7014
331 15:06:34	-128.43	7015
331 16:51:28	-154.77	7016
331 18:36:21	178.88	7017
331 20:21:15	152.53	7018
331 22:06:08	126.18	7019
331 23:51:02	99.83	7020

331 00:05:35	-127.16	3736
331 01:50:31	-153.52	3737
331 03:35:26	-179.87	3738
331 05:20:21	153.77	3739
331 07:05:17	127.42	3740
331 08:50:12	101.06	3741
331 10:35:07	74.70	3742
331 12:20:02	48.34	3743
331 14:04:58	21.99	3744
331 15:49:53	-4.37	3745
331 17:34:48	-30.72	3746
331 19:19:44	-57.08	3747
331 21:04:39	-83.43	3748
331 22:49:34	-109.79	3749

332 01:35:55	73.48	7021
332 03:20:49	47.13	7022
332 05:05:42	20.78	7023
332 06:50:36	-5.56	7024
332 08:35:29	-31.91	7025
332 10:20:23	-58.26	7026
332 12:05:16	-84.61	7027
332 13:50:10	-110.96	7028
332 15:35:03	-137.31	7029
332 17:19:57	-163.65	7030
332 19:04:50	170.00	7031
332 20:49:44	143.65	7032
332 22:34:37	117.30	7033

332 00:34:30	-136.15	3750
332 02:19:25	-162.50	3751
332 04:04:20	171.14	3752
332 05:49:16	144.79	3753
332 07:34:11	118.43	3754
332 09:19:06	92.07	3755
332 11:04:02	65.72	3756
332 12:48:57	39.36	3757
332 14:33:52	13.01	3758
332 16:18:48	-13.35	3759
332 18:03:43	-39.71	3760
332 19:48:38	-66.06	3761
332 21:33:34	-92.42	3762
332 23:18:29	-118.77	3763

333 00:19:31	90.95	7034
333 02:04:24	64.60	7035
333 03:49:18	38.26	7036
333 05:34:11	11.91	7037
333 07:19:05	-14.44	7038
333 09:03:58	-40.79	7039
333 10:48:52	-67.14	7040
333 12:33:45	-93.49	7041
333 14:18:39	-119.84	7042
333 16:03:32	-146.19	7043
333 17:48:26	-172.53	7044
333 19:33:19	161.12	7045
333 21:18:13	134.77	7046
333 23:03:06	108.42	7047

333 01:03:24	-145.13	3764
333 02:48:20	-171.48	3765
333 04:33:15	162.16	3766
333 06:18:10	135.80	3767
333 08:03:06	109.45	3768
333 09:48:01	83.09	3769
333 11:32:56	56.73	3770
333 13:17:51	30.38	3771
333 15:02:47	4.02	3772
333 16:47:42	-22.33	3773
333 18:32:37	-48.69	3774
333 20:17:33	-75.05	3775
333 22:02:28	-101.40	3776
333 23:47:23	-127.76	3777

West longitude is negative (-)

SATELLITE S2
Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

330 00:54:01	-104.57	30683
330 02:36:00	-130.06	30684
330 04:18:00	-155.56	30685
330 05:59:59	178.95	30686
330 07:41:59	153.45	30687
330 09:23:58	127.96	30688
330 11:05:58	102.46	30689
330 12:47:57	76.97	30690
330 14:29:57	51.47	30691
330 16:11:56	25.98	30692
330 17:53:56	.48	30693
330 19:35:55	-25.01	30694
330 21:17:55	-50.51	30695
330 22:59:54	-76.00	30696

SATELLITE S3
Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

330 01:27:34	-92.31	21762
330 03:08:47	-117.62	21763
330 04:49:59	-142.92	21764
330 06:31:11	-168.22	21765
330 08:12:23	166.48	21766
330 09:53:35	141.18	21767
330 11:34:47	115.88	21768
330 13:16:00	90.57	21769
330 14:57:12	65.27	21770
330 16:38:24	39.97	21771
330 18:19:36	14.67	21772
330 20:00:48	-10.63	21773
330 21:42:00	-35.93	21774
330 23:23:13	-61.24	21775

SATELLITE S4
Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

330 01:14:39	-164.79	11180
330 02:56:43	169.69	11181
330 04:38:47	144.17	11182
330 06:20:50	118.67	11183
330 08:02:54	93.15	11184
330 09:44:58	67.63	11185
330 11:27:02	42.12	11186
330 13:09:06	16.60	11187
330 14:51:10	-8.92	11188
330 16:33:13	-34.42	11189
330 18:15:17	-59.94	11190
330 19:57:21	-85.46	11191
330 21:39:25	-110.97	11192
330 23:21:29	-136.49	11193

331 00:41:54	-101.50	30697
331 02:23:53	-126.99	30698
331 04:05:53	-152.49	30699
331 05:47:52	-177.98	30700
331 07:29:52	156.52	30701
331 09:11:51	131.03	30702
331 10:53:51	105.53	30703
331 12:35:50	80.04	30704
331 14:17:50	54.54	30705
331 15:59:49	29.05	30706
331 17:41:49	3.55	30707
331 19:23:48	-21.94	30708
331 21:05:48	-47.44	30709
331 22:47:47	-72.93	30710

331 01:04:25	-86.54	21776
331 02:45:37	-111.84	21777
331 04:26:49	-137.14	21778
331 06:08:01	-162.44	21779
331 07:49:13	172.26	21780
331 09:30:26	146.95	21781
331 11:11:38	121.65	21782
331 12:52:50	96.35	21783
331 14:34:02	71.05	21784
331 16:15:14	45.76	21785
331 17:56:26	20.46	21786
331 19:37:39	-4.86	21787
331 21:18:51	-30.15	21788
331 23:00:03	-55.45	21789

331 01:03:32	-162.00	11194
331 02:45:36	172.49	11195
331 04:27:40	146.97	11196
331 06:09:44	121.45	11197
331 07:51:48	95.94	11198
331 09:33:51	70.43	11199
331 11:15:55	44.91	11200
331 12:57:59	19.40	11201
331 14:40:03	-6.12	11202
331 16:22:07	-31.64	11203
331 18:04:10	-57.14	11204
331 19:46:14	-82.66	11205
331 21:28:18	-108.18	11206
331 23:10:22	-133.69	11207

332 00:29:47	-98.43	30711
332 02:11:46	-123.92	30712
332 03:53:46	-149.43	30713
332 05:35:45	-174.91	30714
332 07:17:45	159.58	30715
332 08:59:44	134.10	30716
332 10:41:44	108.59	30717
332 12:23:44	83.09	30718
332 14:05:43	57.60	30719
332 15:47:43	32.10	30720
332 17:29:42	6.61	30721
332 19:11:42	-18.89	30722
332 20:53:41	-44.38	30723
332 22:35:41	-69.88	30724

332 00:41:15	-80.75	21790
332 02:22:27	-106.05	21791
332 04:03:39	-131.35	21792
332 05:44:52	-156.66	21793
332 07:26:04	178.04	21794
332 09:07:16	152.74	21795
332 10:48:28	127.44	21796
332 12:29:40	102.14	21797
332 14:10:52	76.84	21798
332 15:52:05	51.53	21799
332 17:33:17	26.23	21800
332 19:14:29	.93	21801
332 20:55:41	-24.37	21802
332 22:36:53	-49.67	21803

332 00:52:26	-159.21	11208
332 02:34:30	175.27	11209
332 04:16:33	149.77	11210
332 05:58:37	124.25	11211
332 07:40:41	98.73	11212
332 09:22:45	73.22	11213
332 11:04:49	47.70	11214
332 12:46:52	22.19	11215
332 14:28:56	-3.32	11216
332 16:11:00	-28.84	11217
332 17:53:04	-54.36	11218
332 19:35:08	-79.87	11219
332 21:17:11	-105.38	11220
332 22:59:15	-130.90	11221

333 00:17:40	-95.37	30725
333 01:59:40	-120.87	30726
333 03:41:39	-146.36	30727
333 05:23:39	-171.86	30728
333 07:05:38	162.65	30729
333 08:47:38	137.15	30730
333 10:29:37	111.66	30731
333 12:11:37	86.16	30732
333 13:53:36	60.67	30733
333 15:35:36	35.17	30734
333 17:17:35	9.68	30735
333 18:59:35	-15.82	30736
333 20:41:34	-41.31	30737
333 22:23:34	-66.81	30738

333 00:18:05	-74.97	21804
333 01:59:18	-100.28	21805
333 03:40:30	-125.58	21806
333 05:21:42	-150.88	21807
333 07:02:54	-176.18	21808
333 08:44:06	158.52	21809
333 10:25:18	133.22	21810
333 12:06:31	107.91	21811
333 13:47:43	82.61	21812
333 15:28:55	57.31	21813
333 17:10:07	32.02	21814
333 18:51:19	6.72	21815
333 20:32:31	-18.58	21816
333 22:13:44	-43.90	21817
333 23:54:56	-69.19	21818

333 00:41:19	-156.41	11222
333 02:23:23	178.07	11223
333 04:05:27	152.55	11224
333 05:47:30	127.05	11225
333 07:29:34	101.53	11226
333 09:11:38	76.01	11227
333 10:53:42	50.50	11228
333 12:35:46	24.98	11229
333 14:17:49	-.53	11230
333 15:59:53	-26.04	11231
333 17:41:57	-51.56	11232
333 19:24:01	-77.08	11233
333 21:06:05	-102.59	11234
333 22:48:09	-128.11	11235

SATELLITE C4
Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

334 00:48:00 82.07 7048
 334 02:32:54 55.73 7049
 334 04:17:47 29.38 7050
 334 06:02:41 3.03 7051
 334 07:47:34 -23.32 7052
 334 09:32:28 -49.67 7053
 334 11:17:21 -76.02 7054
 334 13:02:15 -102.37 7055
 334 14:47:08 -128.72 7056
 334 16:32:02 -155.06 7057
 334 18:16:55 178.59 7058
 334 20:01:49 152.24 7059
 334 21:46:42 125.89 7060
 334 23:31:36 99.54 7061

SATELLITE C5
Ascending Node Predictions
Predicting for 185 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

334 01:32:19 -154.11 3778
 334 03:17:14 179.53 3779
 334 05:02:09 153.17 3780
 334 06:47:05 126.82 3781
 334 08:32:00 100.46 3782
 334 10:16:55 74.10 3783
 334 12:01:51 47.75 3784
 334 13:46:46 21.39 3785
 334 15:31:41 -4.96 3786
 334 17:16:37 -31.32 3787
 334 19:01:32 -57.67 3788
 334 20:46:27 -84.03 3789
 334 22:31:23 -110.39 3790

335 01:16:29 73.19 7062
 335 03:01:23 46.85 7063
 335 04:46:16 20.50 7064
 335 06:31:10 -5.85 7065
 335 08:16:03 -32.20 7066
 335 10:00:57 -58.55 7067
 335 11:45:50 -84.90 7068
 335 13:30:44 -111.25 7069
 335 15:15:37 -137.60 7070
 335 17:00:31 -163.94 7071
 335 18:45:24 169.71 7072
 335 20:30:18 143.36 7073
 335 22:15:11 117.01 7074

335 00:16:18 -136.74 3791
 335 02:01:13 -163.10 3792
 335 03:46:09 170.55 3793
 335 05:31:04 144.19 3794
 335 07:15:59 117.83 3795
 335 09:00:55 91.48 3796
 335 10:45:50 65.12 3797
 335 12:30:45 38.76 3798
 335 14:15:41 12.41 3799
 335 16:00:36 -13.95 3800
 335 17:45:31 -40.30 3801
 335 19:30:27 -66.66 3802
 335 21:15:22 -93.01 3803
 335 23:00:17 -119.37 3804

336 00:00:05 90.66 7075
 336 01:44:58 64.31 7076
 336 03:29:52 37.97 7077
 336 05:14:45 11.62 7078
 336 06:59:39 -14.73 7079
 336 08:44:32 -41.08 7080
 336 10:29:26 -67.43 7081
 336 12:14:20 -93.77 7082
 336 13:59:13 -120.12 7083
 336 15:44:07 -146.47 7084
 336 17:29:00 -172.82 7085
 336 19:13:54 160.83 7086
 336 20:58:47 134.48 7087
 336 22:43:41 108.13 7088

336 00:45:13 -145.73 3805
 336 02:30:08 -172.08 3806
 336 04:15:03 161.56 3807
 336 05:59:59 135.21 3808
 336 07:44:54 108.85 3809
 336 09:29:49 82.49 3810
 336 11:14:44 56.13 3811
 336 12:59:40 29.78 3812
 336 14:44:35 3.42 3813
 336 16:29:30 -22.93 3814
 336 18:14:26 -49.29 3815
 336 19:59:21 -75.64 3816
 336 21:44:16 -102.00 3817
 336 23:29:12 -128.36 3818

337 00:28:34 81.78 7089
 337 02:13:28 55.44 7090
 337 03:58:21 29.09 7091
 337 05:43:15 2.74 7092
 337 07:28:08 -23.61 7093
 337 09:13:02 -49.96 7094
 337 10:57:55 -76.31 7095
 337 12:42:49 -102.65 7096
 337 14:27:42 -129.00 7097
 337 16:12:36 -155.35 7098
 337 17:57:29 178.30 7099
 337 19:42:23 151.95 7100
 337 21:27:16 125.60 7101
 337 23:12:10 99.25 7102

337 01:14:07 -154.71 3819
 337 02:59:02 178.93 3820
 337 04:43:58 152.58 3821
 337 06:28:53 126.22 3822
 337 08:13:48 99.86 3823
 337 09:58:44 73.51 3824
 337 11:43:39 47.15 3825
 337 13:28:34 20.79 3826
 337 15:13:30 -5.56 3827
 337 16:58:25 -31.92 3828
 337 18:43:20 -58.27 3829
 337 20:28:16 -84.63 3830
 337 22:13:11 -110.98 3831
 337 23:58:06 -137.34 3832

SATELLITE S2				SATELLITE S3				SATELLITE S4			
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions			
Predicting for 184 days				Predicting for 184 days				Predicting for 183 days			
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	day	hr	mn sc
day	hr	mn	sc	deg	dg	day	hr	mn	deg	dg	
334 00:05:33	-92.30	30739	334 01:36:08	-94.49	21819	334 00:30:12	-153.62	11236			
334 01:47:33	-117.80	30740	334 03:17:20	-119.79	21820	334 02:12:16	-179.13	11237			
334 03:29:32	-143.29	30741	334 04:58:32	-145.09	21821	334 03:54:20	155.35	11238			
334 05:11:32	-168.79	30742	334 06:39:44	-170.39	21822	334 05:36:24	129.83	11239			
334 06:53:31	165.72	30743	334 08:20:57	164.30	21823	334 07:18:28	104.32	11240			
334 08:35:31	140.22	30744	334 10:02:09	139.00	21824	334 09:00:31	78.81	11241			
334 10:17:30	114.73	30745	334 11:43:21	113.70	21825	334 10:42:35	53.29	11242			
334 11:59:30	89.23	30746	334 13:24:33	88.40	21826	334 12:24:39	27.78	11243			
334 13:41:29	63.74	30747	334 15:05:45	63.10	21827	334 14:06:43	2.26	11244			
334 15:23:29	38.24	30748	334 16:46:58	37.79	21828	334 15:48:47	-23.26	11245			
334 17:05:28	12.75	30749	334 18:28:10	12.49	21829	334 17:30:50	-48.76	11246			
334 18:47:28	-12.75	30750	334 20:09:22	-12.81	21830	334 19:12:54	-74.28	11247			
334 20:29:27	-38.24	30751	334 21:50:34	-38.11	21831	334 20:54:58	-99.80	11248			
334 22:11:27	-63.74	30752	334 23:31:46	-63.41	21832	334 22:37:02	-125.31	11249			
334 23:53:26	-89.23	30753									
335 01:35:26	-114.73	30754	335 01:12:58	-88.71	21833	335 00:19:06	-150.83	11250			
335 03:17:25	-140.22	30755	335 02:54:11	-114.02	21834	335 02:01:09	-176.34	11251			
335 04:59:25	-165.72	30756	335 04:35:23	-139.32	21835	335 03:43:13	153.15	11252			
335 06:41:24	168.79	30757	335 06:16:35	-164.62	21836	335 05:25:17	132.63	11253			
335 08:23:24	143.29	30758	335 07:57:47	170.08	21837	335 07:07:21	107.11	11254			
335 10:05:23	117.80	30759	335 09:38:59	144.78	21838	335 08:49:25	81.60	11255			
335 11:47:23	92.30	30760	335 11:20:11	119.48	21839	335 10:31:28	56.09	11256			
335 13:29:23	66.79	30761	335 13:01:24	94.17	21840	335 12:13:32	30.57	11257			
335 15:11:22	41.31	30762	335 14:42:36	68.87	21841	335 13:55:36	5.06	11258			
335 16:53:22	15.80	30763	335 16:23:48	43.57	21842	335 15:37:40	-20.46	11259			
335 18:35:21	-9.68	30764	335 18:05:00	18.27	21843	335 17:19:44	-45.98	11260			
335 20:17:21	-35.19	30765	335 19:46:12	-7.02	21844	335 19:01:48	-71.50	11261			
335 21:59:20	-60.68	30766	335 21:27:24	-32.32	21845	335 20:43:51	-97.00	11262			
335 23:41:20	-86.18	30767	335 23:08:37	-57.64	21846	335 22:25:55	-122.52	11263			
336 01:23:19	-111.67	30768	336 00:49:49	-82.93	21847	336 00:07:59	-148.03	11264			
336 03:05:19	-137.17	30769	336 02:31:01	-108.23	21848	336 01:50:03	-173.55	11265			
336 04:47:18	-162.66	30770	336 04:12:13	-133.53	21849	336 03:32:07	160.93	11266			
336 06:29:18	171.84	30771	336 05:53:25	-158.83	21850	336 05:14:10	135.43	11267			
336 08:11:17	146.35	30772	336 07:34:37	175.87	21851	336 06:56:14	109.91	11268			
336 09:53:17	120.85	30773	336 09:15:49	150.57	21852	336 08:38:18	84.39	11269			
336 11:35:16	95.36	30774	336 10:57:02	125.26	21853	336 10:20:22	58.88	11270			
336 13:17:16	69.86	30775	336 12:38:14	99.96	21854	336 12:02:26	33.36	11271			
336 14:59:15	44.37	30776	336 14:19:26	74.66	21855	336 13:44:29	7.85	11272			
336 16:41:15	18.87	30777	336 16:00:38	49.36	21856	336 15:26:33	-17.66	11273			
336 18:23:14	-6.62	30778	336 17:41:50	24.06	21857	336 17:08:37	-43.18	11274			
336 20:05:14	-32.12	30779	336 19:23:02	-1.24	21858	336 18:50:41	-68.70	11275			
336 21:47:13	-57.61	30780	336 21:04:15	-26.55	21859	336 20:32:45	-94.21	11276			
336 23:29:13	-83.11	30781	336 22:45:27	-51.85	21860	336 22:14:48	-119.72	11277			
336 23:56:52						336 23:56:52	-145.24	11278			
337 01:11:12	-108.60	30782	337 00:26:39	-77.15	21861	337 01:38:56	-170.75	11279			
337 02:53:12	-134.10	30783	337 02:07:51	-102.45	21862	337 03:21:00	163.73	11280			
337 04:35:11	-159.59	30784	337 03:49:03	-127.75	21863	337 05:03:04	138.21	11281			
337 06:17:11	174.91	30785	337 05:30:15	-153.05	21864	337 06:45:07	112.71	11282			
337 07:59:10	149.42	30786	337 07:11:28	-178.36	21865	337 08:27:11	87.19	11283			
337 09:41:10	123.92	30787	337 08:52:40	156.34	21866	337 10:09:15	61.67	11284			
337 11:23:09	98.43	30788	337 10:33:52	131.04	21867	337 11:51:19	36.16	11285			
337 13:05:09	72.93	30789	337 12:15:04	105.74	21868	337 13:33:23	10.64	11286			
337 14:47:08	47.44	30790	337 13:56:16	80.44	21869	337 15:15:27	-14.88	11287			
337 16:29:08	21.94	30791	337 15:37:28	55.15	21870	337 16:57:30	-40.38	11288			
337 18:11:07	-3.55	30792	337 17:18:41	29.83	21871	337 18:39:34	-65.90	11289			
337 19:53:07	-29.05	30793	337 18:59:53	4.53	21872	337 20:21:38	-91.42	11290			
337 21:35:06	-54.54	30794	337 20:41:05	-20.76	21873	337 22:03:42	-116.93	11291			
337 23:17:06	-80.04	30795	337 22:22:17	-46.06	21874	337 23:45:46	-142.45	11292			

SATELLITE C4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

338 00:57:03	72.90	7103
338 02:41:57	46.56	7104
338 04:26:50	20.21	7105
338 06:11:44	-6.14	7106
338 07:56:37	-32.49	7107
338 09:41:31	-58.84	7108
338 11:26:25	-85.18	7109
338 13:11:18	-111.53	7110
338 14:56:12	-137.88	7111
338 16:41:05	-164.23	7112
338 18:25:59	169.42	7113
338 20:10:52	143.07	7114
338 21:55:46	116.72	7115
338 23:40:39	90.37	7116

SATELLITE C5

Ascending Node Predictions
Predicting for 185 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

338 01:43:02	-163.70	3833
338 03:27:57	169.95	3834
338 05:12:52	143.59	3835
338 06:57:48	117.24	3836
338 08:42:43	90.88	3837
338 10:27:38	64.52	3838
338 12:12:34	38.17	3839
338 13:57:29	11.81	3840
338 15:42:24	-14.55	3841
338 17:27:20	-40.90	3842
338 19:12:15	-67.26	3843
338 20:57:10	-93.61	3844
338 22:42:06	-119.97	3845

339 01:25:33	64.03	7117
339 03:10:26	37.68	7118
339 04:55:20	11.33	7119
339 06:40:13	-15.02	7120
339 08:25:07	-41.37	7121
339 10:10:00	-67.72	7122
339 11:54:54	-94.06	7123
339 13:39:47	-120.41	7124
339 15:24:41	-146.76	7125
339 17:09:34	-173.11	7126
339 18:54:28	160.54	7127
339 20:39:21	134.19	7128
339 22:24:15	107.84	7129

339 00:27:01	-146.33	3846
339 02:11:56	-172.68	3847
339 03:56:52	160.96	3848
339 05:41:47	134.61	3849
339 07:26:42	108.25	3850
339 09:11:38	81.90	3851
339 10:56:33	55.54	3852
339 12:41:28	29.18	3853
339 14:26:24	2.83	3854
339 16:11:19	-23.53	3855
339 17:56:14	-49.89	3856
339 19:41:10	-76.24	3857
339 21:26:05	-102.60	3858
339 23:11:00	-128.96	3859

340 00:09:08	81.49	7130
340 01:54:02	55.15	7131
340 03:38:56	28.80	7132
340 05:23:49	2.45	7133
340 07:08:43	-23.90	7134
340 08:53:36	-50.25	7135
340 10:38:30	-76.60	7136
340 12:23:23	-102.95	7137
340 14:08:17	-129.29	7138
340 15:53:10	-155.64	7139
340 17:38:04	178.01	7140
340 19:22:57	151.66	7141
340 21:07:51	125.31	7142
340 22:52:44	98.96	7143

340 00:55:56	-155.31	3860
340 02:40:51	178.33	3861
340 04:25:46	151.98	3862
340 06:10:42	125.62	3863
340 07:55:37	99.27	3864
340 09:40:32	72.91	3865
340 11:25:28	46.55	3866
340 13:10:23	20.20	3867
340 14:55:18	-6.16	3868
340 16:40:14	-32.51	3869
340 18:25:09	-58.87	3870
340 20:10:04	-85.23	3871
340 21:55:00	-111.58	3872
340 23:39:55	-137.94	3873

341 00:37:38	72.62	7144
341 02:22:31	46.27	7145
341 04:07:25	19.92	7146
341 05:52:18	-6.43	7147
341 07:37:12	-32.78	7148
341 09:22:05	-59.13	7149
341 11:06:59	-85.48	7150
341 12:51:52	-111.83	7151
341 14:36:46	-138.17	7152
341 16:21:40	-164.52	7153
341 18:06:33	169.13	7154
341 19:51:27	142.78	7155
341 21:36:20	116.43	7156
341 23:21:14	90.09	7157

341 01:24:50	-164.30	3874
341 03:09:46	169.35	3875
341 04:54:41	142.99	3876
341 06:39:36	116.64	3877
341 08:24:32	90.28	3878
341 10:09:27	63.92	3879
341 11:54:22	37.57	3880
341 13:39:18	11.21	3881
341 15:24:13	-15.14	3882
341 17:09:08	-41.50	3883
341 18:54:04	-67.85	3884
341 20:38:59	-94.21	3885
341 22:23:54	-120.57	3886

SATELLITE S2

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) **E LONG** **ORBIT**
day hr mn sc **deg dg**

338 00:59:05	-105.53	30796
338 02:41:05	-131.03	30797
338 04:23:04	-156.52	30798
338 06:05:04	177.98	30799
338 07:47:04	152.48	30800
338 09:29:03	126.99	30801
338 11:11:03	101.49	30802
338 12:53:02	76.00	30803
338 14:35:02	50.50	30804
338 16:17:01	25.01	30805
338 17:59:01	- .49	30806
338 19:41:00	-25.98	30807
338 21:23:00	-51.48	30808
338 23:04:59	-76.97	30809

SATELLITE S3

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) **E LONG** **ORBIT**
day hr mn sc **deg dg**

338 00:03:29	-71.36	21875
338 01:44:41	-96.66	21876
338 03:25:54	-121.97	21877
338 05:07:06	-147.27	21878
338 06:48:18	-172.57	21879
338 08:29:30	162.13	21880
338 10:10:42	136.83	21881
338 11:51:54	111.53	21882
338 13:33:07	86.22	21883
338 15:14:19	60.92	21884
338 16:55:31	35.62	21885
338 18:36:43	10.32	21886
338 20:17:55	-14.98	21887
338 21:59:07	-40.28	21888
338 23:40:20	-65.59	21889

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) **E LONG** **ORBIT**
day hr mn sc **deg dg**

338 01:27:49	-167.96	11293
338 03:09:53	166.53	11294
338 04:51:57	141.01	11295
338 06:34:01	115.49	11296
338 08:16:05	89.97	11297
338 09:58:08	64.47	11298
338 11:40:12	38.95	11299
338 13:22:16	13.44	11300
338 15:04:20	-12.08	11301
338 16:46:24	-37.60	11302
338 18:28:27	-63.10	11303
338 20:10:31	-88.62	11304
338 21:52:35	-114.14	11305
338 23:34:39	-139.65	11306

339 00:46:59	-102.47	30810
339 02:28:58	-127.96	30811
339 04:10:58	-153.46	30812
339 05:52:57	-178.95	30813
339 07:34:57	155.54	30814
339 09:16:56	130.06	30815
339 10:58:56	104.55	30816
339 12:40:55	79.07	30817
339 14:22:55	53.56	30818
339 16:04:54	28.08	30819
339 17:46:54	2.57	30820
339 19:28:53	-22.91	30821
339 21:10:53	-48.42	30822
339 22:52:52	-73.90	30823

339 01:21:32	-90.89	21890
339 03:02:44	-116.19	21891
339 04:43:56	-141.49	21892
339 06:25:08	-166.79	21893
339 08:06:20	167.91	21894
339 09:47:33	142.60	21895
339 11:28:45	117.30	21896
339 13:09:57	92.00	21897
339 14:51:09	66.70	21898
339 16:32:21	41.41	21899
339 18:13:33	16.11	21900
339 19:54:46	-9.21	21901
339 21:35:58	-34.51	21902
339 23:17:10	-59.80	21903

339 01:16:43	-165.17	11307
339 02:58:46	169.32	11308
339 04:40:50	143.81	11309
339 06:22:54	118.29	11310
339 08:04:58	92.77	11311
339 09:47:02	67.26	11312
339 11:29:06	41.74	11313
339 13:11:09	16.23	11314
339 14:53:13	-9.28	11315
339 16:35:17	-34.80	11316
339 18:17:21	-60.32	11317
339 19:59:25	-85.84	11318
339 21:41:28	-111.34	11319
339 23:23:32	-136.86	11320

340 00:34:52	-99.41	30824
340 02:16:51	-124.89	30825
340 03:58:51	-150.40	30826
340 05:40:50	-175.89	30827
340 07:22:50	158.61	30828
340 09:04:49	133.12	30829
340 10:46:49	107.62	30830
340 12:28:48	82.13	30831
340 14:10:48	56.63	30832
340 15:52:47	31.14	30833
340 17:34:47	5.64	30834
340 19:16:46	-19.85	30835
340 20:58:46	-45.35	30836
340 22:40:46	-70.85	30837

340 00:58:22	-85.10	21904
340 02:39:34	-110.40	21905
340 04:20:46	-135.70	21906
340 06:01:59	-161.01	21907
340 07:43:11	173.69	21908
340 09:24:23	148.39	21909
340 11:05:35	123.09	21910
340 12:46:47	97.79	21911
340 14:27:59	72.49	21912
340 16:09:12	47.18	21913
340 17:50:24	21.88	21914
340 19:31:36	-3.42	21915
340 21:12:48	-28.72	21916
340 22:54:00	-54.02	21917

340 01:05:36	-162.37	11321
340 02:47:40	172.11	11322
340 04:29:44	146.59	11323
340 06:11:47	121.09	11324
340 07:53:51	95.57	11325
340 09:35:55	70.05	11326
340 11:17:59	44.54	11327
340 13:00:03	19.02	11328
340 14:42:06	-6.49	11329
340 16:24:10	-32.00	11330
340 18:06:14	-57.52	11331
340 19:48:18	-83.04	11332
340 21:30:22	-108.56	11333
340 23:12:25	-134.06	11334

341 00:22:45	-96.34	30838
341 02:04:45	-121.84	30839
341 03:46:44	-147.33	30840
341 05:28:44	-172.83	30841
341 07:10:43	161.68	30842
341 08:52:43	136.18	30843
341 10:34:42	110.69	30844
341 12:16:42	85.19	30845
341 13:58:41	59.70	30846
341 15:40:41	34.20	30847
341 17:22:40	8.71	30848
341 19:04:40	-16.79	30849
341 20:46:39	-42.28	30850
341 22:28:39	-67.78	30851

341 00:35:12	-79.32	21918
341 02:16:25	-104.63	21919
341 03:57:37	-129.93	21920
341 05:38:49	-155.23	21921
341 07:20:01	179.47	21922
341 09:01:13	154.17	21923
341 10:42:25	128.87	21924
341 12:23:38	103.56	21925
341 14:04:50	78.26	21926
341 15:46:02	52.96	21927
341 17:27:14	27.66	21928
341 19:08:26	2.37	21929
341 20:49:38	-22.93	21930
341 22:30:51	-48.25	21931

341 00:54:29	-159.58	11335
341 02:36:33	174.91	11336
341 04:18:37	149.39	11337
341 06:00:41	123.87	11338
341 07:42:44	98.37	11339
341 09:24:48	72.85	11340
341 11:06:52	47.33	11341
341 12:48:56	21.82	11342
341 14:31:00	-3.70	11343
341 16:13:04	-29.22	11344
341 17:55:07	-54.72	11345
341 19:37:11	-80.24	11346
341 21:19:15	-105.76	11347
341 23:01:19	-131.27	11348

SATELLITE C4
Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

342 01:06:07	63.74	7158
342 02:51:01	37.39	7159
342 04:35:54	11.04	7160
342 06:20:48	-15.31	7161
342 08:05:41	-41.66	7162
342 09:50:35	-68.01	7163
342 11:35:28	-94.36	7164
342 13:20:22	-120.70	7165
342 15:05:15	-147.05	7166
342 16:50:09	-173.40	7167
342 18:35:02	160.25	7168
342 20:19:56	133.90	7169
342 22:04:49	107.55	7170
342 23:49:43	81.21	7171

SATELLITE C5
Ascending Node Predictions
Predicting for 185 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

342 00:08:50	-146.92	3887
342 01:53:45	-173.28	3888
342 03:38:40	160.36	3889
342 05:23:36	134.01	3890
342 07:08:31	107.65	3891
342 08:53:26	81.29	3892
342 10:38:22	54.94	3893
342 12:23:17	28.58	3894
342 14:08:12	2.23	3895
342 15:53:08	-24.13	3896
342 17:38:03	-50.48	3897
342 19:22:58	-76.84	3898
342 21:07:54	-103.20	3899
342 22:52:49	-129.55	3900

343 01:34:36	54.86	7172
343 03:19:30	28.51	7173
343 05:04:24	2.16	7174
343 06:49:17	-24.19	7175
343 08:34:11	-50.54	7176
343 10:19:04	-76.89	7177
343 12:03:58	-103.23	7178
343 13:48:51	-129.58	7179
343 15:33:45	-155.93	7180
343 17:18:38	177.72	7181
343 19:03:32	151.37	7182
343 20:48:25	125.02	7183
343 22:33:19	98.67	7184

343 00:37:44	-155.91	3901
343 02:22:40	177.74	3902
343 04:07:35	151.38	3903
343 05:52:30	125.02	3904
343 07:37:26	98.67	3905
343 09:22:21	72.31	3906
343 11:07:16	45.95	3907
343 12:52:12	19.60	3908
343 14:37:07	-6.76	3909
343 16:22:02	-33.11	3910
343 18:06:58	-59.47	3911
343 19:51:53	-85.83	3912
343 21:36:48	-112.18	3913
343 23:21:44	-138.54	3914

344 00:18:12	72.32	7185
344 02:03:06	45.98	7186
344 03:47:59	19.63	7187
344 05:32:53	-6.72	7188
344 07:17:46	-33.07	7189
344 09:02:40	-59.42	7190
344 10:47:33	-85.77	7191
344 12:32:27	-112.11	7192
344 14:17:21	-138.46	7193
344 16:02:14	-164.81	7194
344 17:47:08	168.84	7195
344 19:32:01	142.49	7196
344 21:16:55	116.14	7197
344 23:01:48	89.79	7198

344 01:06:39	-164.89	3915
344 02:51:34	168.75	3916
344 04:36:30	142.39	3917
344 06:21:25	116.04	3918
344 08:06:20	89.68	3919
344 09:51:16	63.33	3920
344 11:36:11	36.97	3921
344 13:21:06	10.61	3922
344 15:06:02	-15.74	3923
344 16:50:57	-42.10	3924
344 18:35:52	-68.46	3925
344 20:20:48	-94.81	3926
344 22:05:43	-121.17	3927
344 23:50:38	-147.52	3928

345 00:46:42	63.45	7199
345 02:31:35	37.10	7200
345 04:16:29	10.75	7201
345 06:01:22	-15.60	7202
345 07:46:16	-41.95	7203
345 09:31:09	-68.30	7204
345 11:16:03	-94.65	7205
345 13:00:56	-121.00	7206
345 14:45:50	-147.34	7207
345 16:30:43	-173.69	7208
345 18:15:37	159.96	7209
345 20:00:31	133.61	7210
345 21:45:24	107.26	7211
345 23:30:18	80.92	7212

345 01:35:34	-173.88	3929
345 03:20:29	159.76	3930
345 05:05:24	133.41	3931
345 06:50:20	107.05	3932
345 08:35:15	80.70	3933
345 10:20:10	54.34	3934
345 12:05:06	27.99	3935
345 13:50:01	1.63	3936
345 15:34:56	-24.73	3937
345 17:19:52	-51.08	3938
345 19:04:47	-77.44	3939
345 20:49:42	-103.80	3940
345 22:34:38	-130.15	3941

SATELLITE S2
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

342 00:10:38	-93.27	30852
342 01:52:38	-118.77	30853
342 03:34:37	-144.26	30854
342 05:16:37	-169.76	30855
342 06:58:36	164.75	30856
342 08:40:36	139.25	30857
342 10:22:35	113.76	30858
342 12:04:35	88.26	30859
342 13:46:34	62.77	30860
342 15:28:34	37.27	30861
342 17:10:33	11.78	30862
342 18:52:33	-13.72	30863
342 20:34:32	-39.21	30864
342 22:16:32	-64.71	30865
342 23:58:31	-90.20	30866

SATELLITE S3
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

342 00:12:03	-73.55	21932
342 01:53:15	-98.84	21933
342 03:34:27	-124.14	21934
342 05:15:39	-149.44	21935
342 06:56:51	-174.74	21936
342 08:38:04	159.95	21937
342 10:19:16	134.65	21938
342 12:00:28	109.35	21939
342 13:41:40	84.05	21940
342 15:22:52	58.75	21941
342 17:04:04	33.45	21942
342 18:45:17	8.14	21943
342 20:26:29	-17.16	21944
342 22:07:41	-42.46	21945
342 23:48:53	-67.76	21946

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

342 00:43:23	-156.79	11349
342 02:25:26	177.70	11350
342 04:07:30	152.19	11351
342 05:49:34	126.67	11352
342 07:31:38	101.15	11353
342 09:13:42	75.63	11354
342 10:55:45	50.13	11355
342 12:37:49	24.61	11356
342 14:19:53	-.90	11357
342 16:01:57	-26.42	11358
342 17:44:01	-51.94	11359
342 19:26:04	-77.44	11360
342 21:08:08	-102.96	11361
342 22:50:12	-128.48	11362

343 01:40:31	-115.70	30867
343 03:22:31	-141.21	30868
343 05:04:30	-166.69	30869
343 06:46:30	167.80	30870
343 08:28:29	142.32	30871
343 10:10:29	116.81	30872
343 11:52:28	91.33	30873
343 13:34:28	65.82	30874
343 15:16:27	40.34	30875
343 16:58:27	14.83	30876
343 18:40:26	-10.65	30877
343 20:22:26	-36.16	30878
343 22:04:25	-61.64	30879
343 23:46:25	-87.15	30880

343 01:30:05	-93.06	21947
343 03:11:17	-118.36	21948
343 04:52:30	-143.67	21949
343 06:33:42	-168.97	21950
343 08:14:54	165.73	21951
343 09:56:06	140.43	21952
343 11:37:18	115.13	21953
343 13:18:30	89.83	21954
343 14:59:43	64.52	21955
343 16:40:55	39.22	21956
343 18:22:07	13.92	21957
343 20:03:19	-11.38	21958
343 21:44:31	-36.68	21959
343 23:25:43	-61.97	21960

343 00:32:16	-153.99	11363
343 02:14:20	-179.51	11364
343 03:56:23	154.98	11365
343 05:38:27	129.47	11366
343 07:20:31	103.95	11367
343 09:02:35	78.43	11368
343 10:44:39	52.91	11369
343 12:26:43	27.40	11370
343 14:08:46	1.89	11371
343 15:50:50	-23.62	11372
343 17:32:54	-49.14	11373
343 19:14:58	-74.66	11374
343 20:57:02	-100.18	11375
343 22:39:05	-125.68	11376

344 01:28:24	-112.63	30881
344 03:10:24	-138.14	30882
344 04:52:23	-163.63	30883
344 06:34:23	170.87	30884
344 08:16:22	145.38	30885
344 09:58:22	119.88	30886
344 11:40:21	94.39	30887
344 13:22:21	68.89	30888
344 15:04:20	43.40	30889
344 16:46:20	17.90	30890
344 18:28:19	-7.59	30891
344 20:10:19	-33.09	30892
344 21:52:18	-58.58	30893
344 23:34:18	-84.08	30894

344 01:06:55	-87.27	21961
344 02:48:08	-112.59	21962
344 04:29:20	-137.88	21963
344 06:10:32	-163.18	21964
344 07:51:44	171.52	21965
344 09:32:56	146.22	21966
344 11:14:08	120.92	21967
344 12:55:21	95.61	21968
344 14:36:33	70.31	21969
344 16:17:45	45.01	21970
344 17:58:57	19.71	21971
344 19:40:09	-5.59	21972
344 21:21:21	-30.89	21973
344 23:02:34	-56.20	21974

344 00:21:09	-151.20	11377
344 02:03:13	-176.71	11378
344 03:45:17	157.77	11379
344 05:27:21	132.25	11380
344 07:09:24	106.75	11381
344 08:51:28	81.23	11382
344 10:33:32	55.71	11383
344 12:15:36	30.19	11384
344 13:57:40	4.68	11385
344 15:39:43	-20.83	11386
344 17:21:47	-46.34	11387
344 19:03:51	-71.86	11388
344 20:45:55	-97.38	11389
344 22:27:59	-122.90	11390

345 01:16:17	-109.57	30895
345 02:58:17	-135.07	30896
345 04:40:16	-160.56	30897
345 06:22:16	173.94	30898
345 08:04:16	148.44	30899
345 09:46:15	122.95	30900
345 11:28:15	97.45	30901
345 13:10:14	71.96	30902
345 14:52:14	46.46	30903
345 16:34:13	20.97	30904
345 18:16:13	-4.53	30905
345 19:58:12	-30.02	30906
345 21:40:12	-55.52	30907
345 23:22:11	-81.01	30908

345 00:43:46	-81.50	21975
345 02:24:58	-106.80	21976
345 04:06:10	-132.10	21977
345 05:47:22	-157.40	21978
345 07:28:34	177.30	21979
345 09:09:47	151.99	21980
345 10:50:59	126.69	21981
345 12:32:11	101.39	21982
345 14:13:23	76.09	21983
345 15:54:35	50.79	21984
345 17:35:47	25.49	21985
345 19:17:00	.18	21986
345 20:58:12	-25.12	21987
345 22:39:24	-50.42	21988

345 00:10:02	-148.40	11391
345 01:52:06	-173.92	11392
345 03:34:10	160.57	11393
345 05:16:14	135.05	11394
345 06:58:18	109.53	11395
345 08:40:21	84.03	11396
345 10:22:25	58.51	11397
345 12:04:29	32.99	11398
345 13:46:33	7.47	11399
345 15:28:37	-18.04	11400
345 17:10:40	-43.55	11401
345 18:52:44	-69.06	11402
345 20:34:48	-94.58	11403
345 22:16:52	-120.10	11404
345 23:58:56	-145.62	11405

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

346 01:15:11	54.57	7213
346 03:00:05	28.22	7214
346 04:44:58	1.87	7215
346 06:29:52	-24.48	7216
346 08:14:45	-50.83	7217
346 09:59:39	-77.18	7218
346 11:44:32	-103.53	7219
346 13:29:26	-129.87	7220
346 15:14:19	-156.22	7221
346 16:59:13	177.43	7222
346 18:44:06	151.08	7223
346 20:29:00	124.73	7224
346 22:13:53	98.38	7225
346 23:58:47	72.03	7226

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

346 00:19:33	-156.51	3942
346 02:04:28	177.13	3943
346 03:49:24	150.78	3944
346 05:34:19	124.42	3945
346 07:19:14	98.07	3946
346 09:04:10	71.71	3947
346 10:49:05	45.35	3948
346 12:34:00	19.00	3949
346 14:18:56	-7.36	3950
346 16:03:51	-33.71	3951
346 17:48:46	-60.07	3952
346 19:33:42	-86.42	3953
346 21:18:37	-112.78	3954
346 23:03:32	-139.14	3955

347 01:43:41	45.69	7227
347 03:28:34	19.34	7228
347 05:13:28	-7.01	7229
347 06:58:21	-33.36	7230
347 08:43:15	-59.71	7231
347 10:28:08	-86.06	7232
347 12:13:02	-112.40	7233
347 13:57:55	-138.75	7234
347 15:42:49	-165.10	7235
347 17:27:42	168.55	7236
347 19:12:36	142.20	7237
347 20:57:29	115.85	7238
347 22:42:23	89.50	7239

347 00:48:28	-165.49	3956
347 02:33:23	168.15	3957
347 04:18:18	141.79	3958
347 06:03:14	115.44	3959
347 07:48:09	89.08	3960
347 09:33:04	62.72	3961
347 11:18:00	36.37	3962
347 13:02:55	10.01	3963
347 14:47:50	-16.34	3964
347 16:32:46	-42.70	3965
347 18:17:41	-69.05	3966
347 20:02:36	-95.41	3967
347 21:47:32	-121.77	3968
347 23:32:27	-148.12	3969

348 00:27:16	63.15	7240
348 02:12:10	36.81	7241
348 03:57:04	10.46	7242
348 05:41:57	-15.89	7243
348 07:26:51	-42.24	7244
348 09:11:44	-68.59	7245
348 10:56:38	-94.94	7246
348 12:41:31	-121.29	7247
348 14:26:25	-147.63	7248
348 16:11:18	-173.98	7249
348 17:56:12	159.67	7250
348 19:41:05	133.32	7251
348 21:25:59	106.97	7252
348 23:10:52	80.62	7253

348 01:17:22	-174.48	3970
348 03:02:18	159.17	3971
348 04:47:13	132.81	3972
348 06:32:08	106.45	3973
348 08:17:04	80.10	3974
348 10:01:59	53.74	3975
348 11:46:55	27.39	3976
348 13:31:50	1.03	3977
348 15:16:45	-25.33	3978
348 17:01:41	-51.68	3979
348 18:46:36	-78.04	3980
348 20:31:31	-104.40	3981
348 22:16:27	-130.75	3982

349 00:55:46	54.28	7254
349 02:40:39	27.93	7255
349 04:25:33	1.58	7256
349 06:10:27	-24.77	7257
349 07:55:20	-51.12	7258
349 09:40:14	-77.47	7259
349 11:25:07	-103.82	7260
349 13:10:01	-130.16	7261
349 14:54:54	-156.51	7262
349 16:39:48	177.14	7263
349 18:24:41	150.79	7264
349 20:09:35	124.44	7265
349 21:54:28	98.09	7266
349 23:39:22	71.74	7267

349 00:01:22	-157.11	3983
349 01:46:17	176.54	3984
349 03:31:13	150.18	3985
349 05:16:08	123.82	3986
349 07:01:03	97.47	3987
349 08:45:59	71.11	3988
349 10:30:54	44.76	3989
349 12:15:49	18.40	3990
349 14:00:45	-7.96	3991
349 15:45:40	-34.31	3992
349 17:30:35	-60.67	3993
349 19:15:31	-87.02	3994
349 21:00:26	-113.38	3995
349 22:45:21	-139.74	3996

SATELLITE S2
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

 346 01:04:11 -106.51 30909
 346 02:46:10 -132.00 30910
 346 04:28:10 -157.50 30911
 346 06:10:09 177.01 30912
 346 07:52:09 151.51 30913
 346 09:34:08 126.02 30914
 346 11:16:08 100.52 30915
 346 12:58:07 75.03 30916
 346 14:40:07 49.53 30917
 346 16:22:06 24.04 30918
 346 18:04:06 -1.46 30919
 346 19:46:05 -26.95 30920
 346 21:28:05 -52.45 30921
 346 23:10:04 -77.94 30922

SATELLITE S3
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

 346 00:20:36 -75.72 21989
 346 02:01:48 -101.01 21990
 346 03:43:00 -126.31 21991
 346 05:24:13 -151.63 21992
 346 07:05:25 -176.93 21993
 346 08:46:37 157.78 21994
 346 10:27:49 132.48 21995
 346 12:09:01 107.18 21996
 346 13:50:13 81.88 21997
 346 15:31:26 56.57 21998
 346 17:12:38 31.27 21999
 346 18:53:50 5.97 22000
 346 20:35:02 -19.33 22001
 346 22:16:14 -44.63 22002
 346 23:57:26 -69.93 22003

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

 346 01:41:00 -171.13 11406
 346 03:23:03 163.36 11407
 346 05:05:07 137.85 11408
 346 06:47:11 112.33 11409
 346 08:29:15 86.81 11410
 346 10:11:19 61.29 11411
 346 11:53:22 35.79 11412
 346 13:35:26 10.27 11413
 346 15:17:30 -15.24 11414
 346 16:59:34 -40.76 11415
 346 18:41:38 -66.28 11416
 346 20:23:41 -91.73 11417
 346 22:05:45 -117.30 11418
 346 23:47:49 -142.82 11419

 347 00:52:04 -103.44 30923
 347 02:34:03 -128.93 30924
 347 04:16:03 -154.43 30925
 347 05:58:02 -179.92 30926
 347 07:40:02 154.58 30927
 347 09:22:02 129.08 30928
 347 11:04:01 103.59 30929
 347 12:46:01 78.09 30930
 347 14:28:00 52.60 30931
 347 16:10:00 27.09 30932
 347 17:51:59 1.61 30933
 347 19:33:59 -23.90 30934
 347 21:15:58 -49.38 30935
 347 22:57:58 -74.89 30936

 347 01:38:39 -95.24 22004
 347 03:19:51 -120.54 22005
 347 05:01:03 -145.84 22006
 347 06:42:15 -171.14 22007
 347 08:23:27 163.56 22008
 347 10:04:39 138.26 22009
 347 11:45:51 112.96 22010
 347 13:27:04 87.65 22011
 347 15:08:16 62.35 22012
 347 16:49:28 37.05 22013
 347 18:30:40 11.75 22014
 347 20:11:52 -13.55 22015
 347 21:53:04 -38.85 22016
 347 23:34:17 -64.16 22017

 347 01:29:53 -168.34 11420
 347 03:11:57 166.15 11421
 347 04:54:00 140.64 11422
 347 06:36:04 115.13 11423
 347 08:18:08 89.61 11424
 347 10:00:12 64.09 11425
 347 11:42:16 38.57 11426
 347 13:24:19 13.07 11427
 347 15:06:23 -12.45 11428
 347 16:48:27 -37.96 11429
 347 18:30:31 -63.48 11430
 347 20:12:35 -89.00 11431
 347 21:54:38 -114.50 11432
 347 23:36:42 -140.02 11433

 348 00:39:57 -100.37 30937
 348 02:21:57 -125.98 30938
 348 04:03:56 -151.36 30939
 348 05:45:56 -176.87 30940
 348 07:27:55 157.65 30941
 348 09:09:55 132.14 30942
 348 10:51:54 106.66 30943
 348 12:33:54 81.15 30944
 348 14:15:53 55.67 30945
 348 15:57:53 30.16 30946
 348 17:39:52 4.68 30947
 348 19:21:52 -20.83 30948
 348 21:03:51 -46.31 30949
 348 22:45:51 -71.82 30950

 348 01:15:29 -89.46 22018
 348 02:56:41 -114.76 22019
 348 04:37:53 -140.06 22020
 348 06:19:05 -165.35 22021
 348 08:00:17 169.35 22022
 348 09:41:30 144.03 22023
 348 11:22:42 118.73 22024
 348 13:03:54 93.44 22025
 348 14:45:06 68.14 22026
 348 16:26:18 42.84 22027
 348 18:07:30 17.54 22028
 348 19:48:43 -7.77 22029
 348 21:29:55 -33.07 22030
 348 23:11:07 -58.37 22031

 348 01:18:46 -165.54 11434
 348 03:00:50 168.94 11435
 348 04:42:54 143.43 11436
 348 06:24:57 117.92 11437
 348 08:07:01 92.41 11438
 348 09:49:05 66.89 11439
 348 11:31:09 41.37 11440
 348 13:13:13 15.85 11441
 348 14:55:17 -9.66 11442
 348 16:37:20 -35.17 11443
 348 18:19:24 -60.68 11444
 348 20:01:23 -86.20 11445
 348 21:43:32 -111.72 11446
 348 23:25:36 -137.24 11447

 349 00:27:50 -97.31 30951
 349 02:09:50 -122.81 30952
 349 03:51:49 -148.30 30953
 349 05:33:49 -173.80 30954
 349 07:15:48 160.71 30955
 349 08:57:48 135.21 30956
 349 10:39:48 109.71 30957
 349 12:21:47 84.22 30958
 349 14:03:47 58.72 30959
 349 15:45:46 33.23 30960
 349 17:27:46 7.73 30961
 349 19:09:45 -17.76 30962
 349 20:51:45 -43.26 30963
 349 22:33:44 -68.75 30964

 349 00:52:19 -83.67 22032
 349 02:33:31 -108.97 22033
 349 04:14:43 -134.27 22034
 349 05:55:56 -159.58 22035
 349 07:37:08 175.12 22036
 349 09:18:20 149.82 22037
 349 10:59:32 124.52 22038
 349 12:40:44 99.22 22039
 349 14:21:56 73.92 22040
 349 16:03:09 48.61 22041
 349 17:44:21 23.31 22042
 349 19:25:33 -1.99 22043
 349 21:06:45 -27.29 22044
 349 22:47:57 -52.59 22045

 349 01:07:39 -162.74 11448
 349 02:49:43 171.74 11449
 349 04:31:47 146.22 11450
 349 06:13:51 120.71 11451
 349 07:55:55 95.19 11452
 349 09:37:58 69.69 11453
 349 11:20:02 44.17 11454
 349 13:02:06 18.65 11455
 349 14:44:10 -6.87 11456
 349 16:26:14 -32.38 11457
 349 18:08:17 -57.89 11458
 349 19:50:21 -83.41 11459
 349 21:32:25 -108.92 11460
 349 23:14:29 -134.44 11461

SATELLITE C4**Ascending Node Predictions****Predicting for 183 days**

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

350 01:24:15	45.39	7268
350 03:09:09	19.05	7269
350 04:54:02	-7.30	7270
350 06:38:56	-33.65	7271
350 08:23:50	-60.00	7272
350 10:08:43	-86.35	7273
350 11:53:37	-112.70	7274
350 13:38:30	-139.05	7275
350 15:23:24	-165.39	7276
350 17:08:17	168.26	7277
350 18:53:11	141.91	7278
350 20:38:04	115.56	7279
350 22:22:58	89.21	7280

SATELLITE C5**Ascending Node Predictions****Predicting for 185 days**

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

350 00:30:17	-166.09	3997
350 02:15:12	167.55	3998
350 04:00:07	141.19	3999
350 05:45:03	114.84	4000
350 07:29:58	88.48	4001
350 09:14:53	62.13	4002
350 10:59:49	35.77	4003
350 12:44:44	9.41	4004
350 14:29:39	-16.94	4005
350 16:14:35	-43.30	4006
350 17:59:30	-69.65	4007
350 19:44:25	-96.01	4008
350 21:29:21	-122.37	4009
350 23:14:16	-148.72	4010

351 00:07:51	62.86	7281
351 01:52:45	36.51	7282
351 03:37:38	10.16	7283
351 05:22:32	-16.18	7284
351 07:07:26	-42.53	7285
351 08:52:19	-68.88	7286
351 10:37:13	-95.23	7287
351 12:22:06	-121.58	7288
351 14:07:00	-147.92	7289
351 15:51:53	-174.27	7290
351 17:36:47	159.38	7291
351 19:21:40	133.03	7292
351 21:06:34	106.68	7293
351 22:51:27	80.33	7294

351 00:59:11	-175.08	4011
351 02:44:07	158.57	4012
351 04:29:02	132.21	4013
351 06:13:57	105.85	4014
351 07:58:53	79.50	4015
351 09:43:48	53.14	4016
351 11:28:43	26.78	4017
351 13:13:39	.43	4018
351 14:58:34	-25.93	4019
351 16:43:29	-52.28	4020
351 18:28:25	-78.64	4021
351 20:13:20	-105.00	4022
351 21:58:15	-131.35	4023
351 23:43:11	-157.71	4024

352 00:36:21	53.98	7295
352 02:21:14	27.63	7296
352 04:06:08	1.29	7297
352 05:51:01	-25.06	7298
352 07:35:55	-51.41	7299
352 09:20:49	-77.76	7300
352 11:05:42	-104.11	7301
352 12:50:36	-130.46	7302
352 14:35:29	-156.81	7303
352 16:20:23	176.85	7304
352 18:05:16	150.50	7305
352 19:50:10	124.15	7306
352 21:35:03	97.80	7307
352 23:19:57	71.45	7308

352 01:28:06	175.94	4025
352 03:13:01	149.58	4026
352 04:57:57	123.22	4027
352 06:42:52	96.87	4028
352 08:27:48	70.51	4029
352 10:12:43	44.16	4030
352 11:57:38	17.80	4031
352 13:42:34	-8.56	4032
352 15:27:29	-34.91	4033
352 17:12:24	-61.27	4034
352 18:57:20	-87.62	4035
352 20:42:15	-113.98	4036
352 22:27:10	-140.34	4037

353 01:04:50	45.10	7309
353 02:49:44	18.75	7310
353 04:34:37	-7.60	7311
353 06:19:31	-33.94	7312
353 08:04:25	-60.29	7313
353 09:49:18	-86.64	7314
353 11:34:12	-112.99	7315
353 13:19:05	-139.34	7316
353 15:03:59	-165.69	7317
353 16:48:52	167.96	7318
353 18:33:46	141.62	7319
353 20:18:39	115.27	7320
353 22:03:33	88.92	7321
353 23:48:26	62.57	7322

353 00:12:06	-166.69	4038
353 01:57:01	166.95	4039
353 03:41:56	140.59	4040
353 05:26:52	114.24	4041
353 07:11:47	87.88	4042
353 08:56:42	61.53	4043
353 10:41:38	35.17	4044
353 12:26:33	8.81	4045
353 14:11:28	-17.54	4046
353 15:56:24	-43.90	4047
353 17:41:19	-70.25	4048
353 19:26:14	-96.61	4049
353 21:11:10	-122.97	4050
353 22:56:05	-149.32	4051

SATELLITE S2			
Ascending Node Predictions			
Predicting for 184 days			
TIME (GMT)	E LONG	ORBIT	
day hr mn sc	deg dg		
350 00:15:44	-94.25	30965	
350 01:57:43	-119.74	30966	
350 03:39:43	-145.24	30967	
350 05:21:42	-170.73	30968	
350 07:03:42	163.77	30969	
350 08:45:41	138.28	30970	
350 10:27:41	112.78	30971	
350 12:09:40	87.29	30972	
350 13:51:40	61.79	30973	
350 15:33:39	36.30	30974	
350 17:15:39	10.80	30975	
350 18:57:38	-14.69	30976	
350 20:39:38	-40.19	30977	
350 22:21:37	-65.68	30978	

SATELLITE S3			
Ascending Node Predictions			
Predicting for 184 days			
TIME (GMT)	E LONG	ORBIT	
day hr mn sc	deg dg		
350 00:29:09	-77.89	22046	
350 02:10:21	-103.19	22047	
350 03:51:34	-128.50	22048	
350 05:32:46	-153.80	22049	
350 07:13:58	-179.10	22050	
350 08:55:10	155.60	22051	
350 10:36:22	130.31	22052	
350 12:17:34	105.01	22053	
350 13:58:47	79.69	22054	
350 15:39:59	54.39	22055	
350 17:21:11	29.10	22056	
350 19:02:23	3.80	22057	
350 20:43:35	-21.50	22058	
350 22:24:47	-46.80	22059	

SATELLITE S4			
Ascending Node Predictions			
Predicting for 183 days			
TIME (GMT)	E LONG	ORBIT	
day hr mn sc	deg dg		
350 00:56:33	-159.96	11462	
350 02:38:36	174.54	11463	
350 04:20:40	149.02	11464	
350 06:02:44	123.50	11465	
350 07:44:48	97.99	11466	
350 09:26:52	72.47	11467	
350 11:08:55	46.97	11468	
350 12:50:59	21.45	11469	
350 14:33:03	-4.07	11470	
350 16:15:07	-29.59	11471	
350 17:57:11	-55.10	11472	
350 19:39:14	-80.61	11473	
350 21:21:18	-106.13	11474	
350 23:03:22	-131.64	11475	

351 00:03:37	-91.18	30979
351 01:45:36	-116.67	30980
351 03:27:36	-142.17	30981
351 05:09:35	-167.66	30982
351 06:51:35	166.84	30983
351 08:33:35	141.34	30984
351 10:15:34	115.85	30985
351 11:57:34	90.35	30986
351 13:39:33	64.86	30987
351 15:21:33	39.36	30988
351 17:03:32	13.87	30989
351 18:45:32	-11.63	30990
351 20:27:31	-37.12	30991
351 22:09:31	-62.62	30992
351 23:51:30	-88.11	30993

351 00:06:00	-72.11	22060
351 01:47:12	-97.41	22061
351 03:28:24	-122.71	22062
351 05:09:36	-148.01	22063
351 06:50:48	-173.31	22064
351 08:32:00	161.39	22065
351 10:13:13	136.08	22066
351 11:54:25	110.78	22067
351 13:35:37	85.48	22068
351 15:16:49	60.18	22069
351 16:58:01	34.88	22070
351 18:39:13	9.58	22071
351 20:20:25	-15.72	22072
351 22:01:38	-41.03	22073
351 23:42:50	-66.33	22074

351 00:45:26	-157.16	11476
351 02:27:30	177.32	11477
351 04:09:33	151.82	11478
351 05:51:37	126.30	11479
351 07:33:41	100.78	11480
351 09:15:45	75.27	11481
351 10:57:49	49.75	11482
351 12:39:53	24.23	11483
351 14:21:56	-1.27	11484
351 16:04:00	-26.79	11485
351 17:46:04	-52.31	11486
351 19:28:08	-77.82	11487
351 21:10:12	-103.34	11488
351 22:52:15	-128.85	11489

352 01:33:30	-113.61	30994
352 03:15:29	-139.10	30995
352 04:57:29	-164.60	30996
352 06:39:26	169.91	30997
352 08:21:28	144.41	30998
352 10:03:27	118.92	30999
352 11:45:27	93.42	31000
352 13:27:26	67.93	31001
352 15:09:26	42.43	31002
352 16:51:25	16.94	31003
352 18:33:25	-8.56	31004
352 20:15:24	-34.05	31005
352 21:57:24	-59.56	31006
352 23:39:23	-85.04	31007

352 01:24:02	-91.63	22075
352 03:05:14	-116.93	22076
352 04:46:26	-142.23	22077
352 06:27:38	-167.53	22078
352 08:08:51	167.16	22079
352 09:50:03	141.86	22080
352 11:31:15	116.56	22081
352 13:12:27	91.26	22082
352 14:53:39	65.96	22083
352 16:34:51	40.67	22084
352 18:16:04	15.35	22085
352 19:57:16	-9.95	22086
352 21:38:28	-35.25	22087
352 23:19:40	-60.54	22088

352 00:34:19	-154.36	11490
352 02:16:23	-179.88	11491
352 03:58:27	154.60	11492
352 05:40:31	129.09	11493
352 07:22:34	103.58	11494
352 09:04:38	78.06	11495
352 10:46:42	52.55	11496
352 12:28:46	27.03	11497
352 14:10:50	1.51	11498
352 15:52:53	-23.99	11499
352 17:34:57	-49.51	11500
352 19:17:01	-75.03	11501
352 20:59:05	-100.54	11502
352 22:41:09	-126.06	11503

353 01:21:23	-110.55	31008
353 03:03:22	-136.03	31009
353 04:45:22	-161.54	31010
353 06:27:22	172.96	31011
353 08:09:21	147.47	31012
353 09:51:21	121.97	31013
353 11:33:20	96.48	31014
353 13:15:20	70.98	31015
353 14:57:19	45.49	31016
353 16:39:19	19.99	31017
353 18:21:18	-5.50	31018
353 20:03:18	-31.00	31019
353 21:45:17	-56.49	31020
353 23:27:17	-81.99	31021

353 01:00:52	-85.84	22089
353 02:42:04	-111.14	22090
353 04:23:17	-136.45	22091
353 06:04:29	-161.75	22092
353 07:45:41	172.95	22093
353 09:26:53	147.65	22094
353 11:08:05	122.35	22095
353 12:49:17	97.05	22096
353 14:30:29	71.75	22097
353 16:11:42	46.44	22098
353 17:52:54	21.14	22099
353 19:34:06	-4.16	22100
353 21:15:18	-29.46	22101
353 22:56:30	-54.76	22102

353 00:23:12	-151.57	11504
353 02:05:16	-177.08	11505
353 03:47:20	157.40	11506
353 05:29:24	131.88	11507
353 07:11:28	106.36	11508
353 08:53:31	80.86	11509
353 10:35:35	55.34	11510
353 12:17:39	29.83	11511
353 13:59:43	4.31	11512
353 15:41:47	-21.21	11513
353 17:23:50	-46.71	11514
353 19:05:54	-72.23	11515
353 20:47:58	-97.75	11516
353 22:30:02	-123.26	11517

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

354 01:33:20	36.22	7323
354 03:18:13	9.87	7324
354 05:03:07	-16.47	7325
354 06:48:01	-42.82	7326
354 08:32:54	-69.17	7327
354 10:17:48	-95.52	7328
354 12:02:41	-121.87	7329
354 13:47:35	-148.22	7330
354 15:32:28	-174.57	7331
354 17:17:22	159.09	7332
354 19:02:15	132.74	7333
354 20:47:09	106.39	7334
354 22:32:02	80.04	7335

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

354 00:41:00	-175.68	4052
354 02:25:56	157.97	4053
354 04:10:51	131.61	4054
354 05:55:46	105.25	4055
354 07:40:42	78.90	4056
354 09:25:37	52.54	4057
354 11:10:32	26.18	4058
354 12:55:28	-17	4059
354 14:40:23	-26.53	4060
354 16:25:18	-52.89	4061
354 18:10:14	-79.24	4062
354 19:55:09	-105.60	4063
354 21:40:04	-131.95	4064
354 23:25:00	-158.31	4065

355 00:16:56	53.69	7336
355 02:01:50	27.34	7337
355 03:46:43	.99	7338
355 05:31:37	-25.35	7339
355 07:16:30	-51.70	7340
355 09:01:24	-78.05	7341
355 10:46:17	-104.40	7342
355 12:31:11	-130.75	7343
355 14:16:04	-157.10	7344
355 16:00:58	176.55	7345
355 17:45:51	150.20	7346
355 19:30:45	123.86	7347
355 21:15:38	97.51	7348
355 23:00:32	71.16	7349

355 01:09:55	175.34	4066
355 02:54:50	148.98	4067
355 04:39:46	122.62	4068
355 06:24:41	96.27	4069
355 08:09:36	69.91	4070
355 09:54:32	43.56	4071
355 11:39:27	17.20	4072
355 13:24:22	-9.16	4073
355 15:09:18	-35.51	4074
355 16:54:13	-61.87	4075
355 18:39:09	-88.22	4076
355 20:24:04	-114.58	4077
355 22:08:59	-140.94	4078
355 23:53:55	-167.29	4079

356 00:45:26	44.81	7350
356 02:30:19	18.46	7351
356 04:15:13	-7.89	7352
356 06:00:06	-34.24	7353
356 07:45:00	-60.58	7354
356 09:29:53	-86.93	7355
356 11:14:47	-113.28	7356
356 12:59:40	-139.63	7357
356 14:44:34	-165.98	7358
356 16:29:27	167.67	7359
356 18:14:21	141.32	7360
356 19:59:15	114.98	7361
356 21:44:08	88.63	7362
356 23:29:02	62.28	7363

356 01:38:50	166.35	4080
356 03:23:45	139.99	4081
356 05:08:41	113.64	4082
356 06:53:36	87.28	4083
356 08:38:31	60.92	4084
356 10:23:27	34.57	4085
356 12:08:22	8.21	4086
356 13:53:17	-18.14	4087
356 15:38:13	-44.50	4088
356 17:23:08	-70.85	4089
356 19:08:03	-97.21	4090
356 20:52:59	-123.57	4091
356 22:37:54	-149.92	4092

357 01:13:55	35.93	7364
357 02:58:49	9.58	7365
357 04:43:42	-16.77	7366
357 06:28:36	-43.12	7367
357 08:13:29	-69.47	7368
357 09:58:23	-95.81	7369
357 11:43:16	-122.16	7370
357 13:28:10	-148.51	7371
357 15:13:03	-174.86	7372
357 16:57:57	158.79	7373
357 18:42:51	132.44	7374
357 20:27:44	106.09	7375
357 22:12:38	79.75	7376
357 23:57:31	53.40	7377

357 00:22:49	-176.28	4093
357 02:07:45	157.37	4094
357 03:52:40	131.01	4095
357 05:37:35	104.65	4096
357 07:22:31	78.30	4097
357 09:07:26	51.94	4098
357 10:52:21	25.58	4099
357 12:37:17	-77	4100
357 14:22:12	-27.13	4101
357 16:07:07	-53.49	4102
357 17:52:03	-79.84	4103
357 19:36:58	-106.20	4104
357 21:21:53	-132.55	4105
357 23:06:49	-158.91	4106

SATELLITE S2**Ascending Node Predictions**

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

354 01:09:16	-107.48	31022
354 02:51:16	-132.98	31023
354 04:33:15	-158.47	31024
354 06:15:15	176.03	31025
354 07:57:14	150.54	31026
354 09:39:14	125.04	31027
354 11:21:13	99.55	31028
354 13:03:13	74.05	31029
354 14:45:12	48.56	31030
354 16:27:12	23.06	31031
354 18:09:11	-2.43	31032
354 19:51:11	-27.93	31033
354 21:33:10	-53.42	31034
354 23:15:10	-78.92	31035

SATELLITE S3**Ascending Node Predictions**

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

354 00:37:42	-80.06	22103
354 02:18:55	-105.37	22104
354 04:00:07	-130.67	22105
354 05:41:19	-155.97	22106
354 07:22:31	178.73	22107
354 09:03:43	153.43	22108
354 10:44:55	128.13	22109
354 12:26:08	102.82	22110
354 14:07:20	77.52	22111
354 15:48:32	52.22	22112
354 17:29:44	26.92	22113
354 19:10:56	1.62	22114
354 20:52:08	-23.68	22115
354 22:33:20	-48.97	22116

SATELLITE S4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

354 00:12:06	-148.78	11518
354 01:54:09	-174.29	11519
354 03:36:13	160.20	11520
354 05:18:17	134.68	11521
354 07:00:21	109.16	11522
354 08:42:25	83.64	11523
354 10:24:28	58.14	11524
354 12:06:32	32.62	11525
354 13:48:36	7.11	11526
354 15:30:40	-18.41	11527
354 17:12:44	-43.93	11528
354 18:54:47	-69.43	11529
354 20:36:51	-94.95	11530
354 22:18:55	-120.47	11531

355 00:57:10	-104.42	31036
355 02:39:09	-129.91	31037
355 04:21:09	-155.41	31038
355 06:03:08	179.10	31039
355 07:45:08	153.60	31040
355 09:27:07	128.11	31041
355 11:09:07	102.61	31042
355 12:51:06	77.12	31043
355 14:33:06	51.62	31044
355 16:15:05	26.13	31045
355 17:57:05	.63	31046
355 19:39:04	-24.86	31047
355 21:21:04	-50.36	31048
355 23:03:03	-75.85	31049

355 00:14:33	-74.29	22117
355 01:55:45	-99.59	22118
355 03:36:57	-124.89	22119
355 05:18:09	-150.18	22120
355 06:59:21	-175.48	22121
355 08:40:33	159.22	22122
355 10:21:46	133.91	22123
355 12:02:58	108.61	22124
355 13:44:10	83.31	22125
355 15:25:22	58.01	22126
355 17:06:34	32.71	22127
355 18:47:46	7.41	22128
355 20:28:59	-17.90	22129
355 22:10:11	-43.20	22130
355 23:51:23	-68.50	22131

355 00:00:59	-145.98	11532
355 01:43:03	-171.50	11533
355 03:25:06	162.99	11534
355 05:07:10	137.48	11535
355 06:49:14	111.96	11536
355 08:31:18	86.44	11537
355 10:13:22	60.92	11538
355 11:55:25	35.42	11539
355 13:37:29	9.90	11540
355 15:19:33	-15.61	11541
355 17:01:37	-41.13	11542
355 18:43:41	-66.65	11543
355 20:25:45	-92.17	11544
355 22:07:48	-117.67	11545
355 23:49:52	-143.19	11546

356 00:45:03	-101.35	31050
356 02:27:02	-126.84	31051
356 04:09:02	-152.34	31052
356 05:51:01	-177.83	31053
356 07:33:01	156.67	31054
356 09:15:00	131.18	31055
356 10:57:00	105.68	31056
356 12:38:59	80.19	31057
356 14:20:59	54.69	31058
356 16:02:58	29.20	31059
356 17:44:58	3.70	31060
356 19:26:58	-21.80	31061
356 21:08:57	-47.29	31062
356 22:50:57	-72.79	31063

356 01:32:35	-93.80	22132
356 03:13:47	-119.10	22133
356 04:54:59	-144.40	22134
356 06:36:12	-169.71	22135
356 08:17:24	164.99	22136
356 09:58:36	139.69	22137
356 11:39:48	114.39	22138
356 13:21:00	89.09	22139
356 15:02:12	63.79	22140
356 16:43:24	38.49	22141
356 18:24:37	13.18	22142
356 20:05:49	-12.12	22143
356 21:47:01	-37.42	22144
356 23:28:13	-62.72	22145

356 01:31:56	-168.71	11547
356 03:14:00	165.78	11548
356 04:56:04	140.26	11549
356 06:38:07	114.76	11550
356 08:20:11	89.24	11551
356 10:02:15	63.72	11552
356 11:44:19	38.20	11553
356 13:26:23	12.69	11554
356 15:08:26	-12.82	11555
356 16:50:30	-38.33	11556
356 18:32:34	-63.85	11557
356 20:14:38	-89.37	11558
356 21:56:42	-114.89	11559
356 23:38:45	-140.39	11560

357 00:32:56	-98.28	31064
357 02:14:56	-123.78	31065
357 03:56:55	-149.27	31066
357 05:38:55	-174.77	31067
357 07:20:54	159.74	31068
357 09:02:54	134.23	31069
357 10:44:53	108.75	31070
357 12:26:53	83.24	31071
357 14:08:52	57.76	31072
357 15:50:52	32.25	31073
357 17:32:51	6.77	31074
357 19:14:51	-18.74	31075
357 20:56:50	-44.22	31076
357 22:38:50	-69.73	31077

357 01:09:25	-88.02	22146
357 02:50:37	-113.32	22147
357 04:31:50	-138.63	22148
357 06:13:02	-163.93	22149
357 07:54:14	170.77	22150
357 09:35:26	145.47	22151
357 11:16:38	120.18	22152
357 12:57:50	94.88	22153
357 14:39:03	69.56	22154
357 16:20:15	44.26	22155
357 18:01:27	18.97	22156
357 19:42:39	-6.33	22157
357 21:23:51	-31.63	22158
357 23:05:03	-56.93	22159

357 01:20:49	-165.91	11561
357 03:02:53	168.57	11562
357 04:44:57	143.06	11563
357 06:27:01	117.54	11564
357 08:09:04	92.04	11565
357 09:51:08	66.52	11566
357 11:33:12	41.00	11567
357 13:15:16	15.48	11568
357 14:57:20	-10.03	11569
357 16:39:23	-35.54	11570
357 18:21:27	-61.06	11571
357 20:03:31	-86.57	11572
357 21:45:35	-112.09	11573
357 23:27:39	-137.61	11574

SATELLITE C4
Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

358 01:42:25	27.05	7378
358 03:27:18	.70	7379
358 05:12:12	-25.65	7380
358 06:57:05	-52.00	7381
358 08:41:59	-78.35	7382
358 10:26:52	-104.70	7383
358 12:11:46	-131.04	7384
358 13:56:40	-157.39	7385
358 15:41:33	176.26	7386
358 17:26:27	149.91	7387
358 19:11:20	123.56	7388
358 20:56:14	97.22	7389
358 22:41:07	70.86	7390

SATELLITE C5
Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

358 00:51:44	174.74	4107
358 02:36:39	148.38	4108
358 04:21:35	122.02	4109
358 06:06:30	95.67	4110
358 07:51:25	69.31	4111
358 09:36:21	42.96	4112
358 11:21:16	16.60	4113
358 13:06:11	-9.76	4114
358 14:51:07	-36.11	4115
358 16:36:02	-62.47	4116
358 18:20:57	-88.83	4117
358 20:05:53	-115.18	4118
358 21:50:48	-141.54	4119
358 23:35:44	-167.89	4120

359 00:26:01	44.52	7391
359 02:10:54	18.17	7392
359 03:55:48	-8.18	7393
359 05:40:41	-34.53	7394
359 07:25:35	-60.88	7395
359 09:10:29	-87.22	7396
359 10:55:22	-113.57	7397
359 12:40:16	-139.92	7398
359 14:25:09	-166.27	7399
359 16:10:03	167.38	7400
359 17:54:56	141.03	7401
359 19:39:50	114.68	7402
359 21:24:43	88.33	7403
359 23:09:37	61.99	7404

359 01:20:39	165.75	4121
359 03:05:34	139.39	4122
359 04:50:30	113.04	4123
359 06:35:25	86.68	4124
359 08:20:20	60.32	4125
359 10:05:16	33.97	4126
359 11:50:11	7.61	4127
359 13:35:06	-18.74	4128
359 15:20:02	-45.10	4129
359 17:04:57	-71.45	4130
359 18:49:52	-97.81	4131
359 20:34:48	-124.17	4132
359 22:19:43	-150.52	4133

360 00:54:30	35.64	7405
360 02:39:24	9.29	7406
360 04:24:18	-17.06	7407
360 06:09:11	-43.41	7408
360 07:54:05	-69.76	7409
360 09:38:58	-96.11	7410
360 11:23:52	-122.45	7411
360 13:08:45	-148.80	7412
360 14:53:39	-175.15	7413
360 16:38:32	158.50	7414
360 18:23:26	132.15	7415
360 20:08:19	105.80	7416
360 21:53:13	79.45	7417
360 23:38:07	53.11	7418

360 00:04:38	-176.88	4134
360 01:49:34	156.77	4135
360 03:34:29	130.41	4136
360 05:19:24	104.05	4137
360 07:04:20	77.70	4138
360 08:49:15	51.34	4139
360 10:34:10	24.98	4140
360 12:19:06	-1.37	4141
360 14:04:01	-27.73	4142
360 15:48:56	-54.09	4143
360 17:33:52	-80.44	4144
360 19:18:47	-106.80	4145
360 21:03:42	-133.15	4146
360 22:48:38	-159.51	4147

361 01:23:00	26.76	7419
361 03:07:54	.41	7420
361 04:52:47	-25.94	7421
361 06:37:41	-52.29	7422
361 08:22:34	-78.64	7423
361 10:07:28	-104.99	7424
361 11:52:21	-131.34	7425
361 13:37:15	-157.68	7426
361 15:22:08	175.97	7427
361 17:07:02	149.62	7428
361 18:51:56	123.27	7429
361 20:36:49	96.92	7430
361 22:21:43	70.57	7431

361 00:33:33	174.14	4148
361 02:18:28	147.78	4149
361 04:03:24	121.42	4150
361 05:48:19	95.07	4151
361 07:33:14	68.71	4152
361 09:18:10	42.36	4153
361 11:03:05	16.00	4154
361 12:48:00	-10.36	4155
361 14:32:56	-36.71	4156
361 16:17:51	-63.07	4157
361 18:02:46	-89.43	4158
361 19:47:42	-115.78	4159
361 21:32:37	-142.14	4160
361 23:17:32	-168.50	4161

SATELLITE S2**Ascending Node Predictions**

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

358 00:20:49	-95.21	31078
358 02:02:49	-120.72	31079
358 03:44:48	-146.20	31080
358 05:26:48	-171.71	31081
358 07:08:47	162.81	31082
358 08:50:47	137.30	31083
358 10:32:46	111.82	31084
358 12:14:46	86.31	31085
358 13:56:46	60.81	31086
358 15:38:45	35.32	31087
358 17:20:45	9.82	31088
358 19:02:44	-15.67	31089
358 20:44:44	-41.17	31090
358 22:26:43	-66.66	31091

SATELLITE S3**Ascending Node Predictions**

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

358 00:46:15	-82.23	22160
358 02:27:28	-107.54	22161
358 04:08:40	-132.84	22162
358 05:49:52	-158.14	22163
358 07:31:04	176.56	22164
358 09:12:16	151.26	22165
358 10:53:28	125.96	22166
358 12:34:41	100.65	22167
358 14:15:53	75.35	22168
358 15:57:05	50.05	22169
358 17:38:17	24.75	22170
358 19:19:29	-55	22171
358 21:00:41	-25.85	22172
358 22:41:53	-51.15	22173

SATELLITE S4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

358 01:09:42	-163.11	11575
358 02:51:46	171.37	11576
358 04:33:50	145.85	11577
358 06:15:54	120.34	11578
358 07:57:58	94.82	11579
358 09:40:01	69.31	11580
358 11:22:05	43.80	11581
358 13:04:09	18.28	11582
358 14:46:13	-7.24	11583
358 16:28:17	-32.75	11584
358 18:10:20	-58.26	11585
358 19:52:24	-83.78	11586
358 21:34:28	-109.29	11587
358 23:16:32	-134.81	11588

359 00:08:43	-92.16	31092
359 01:50:42	-117.65	31093
359 03:32:42	-143.15	31094
359 05:14:41	-168.64	31095
359 06:56:41	165.86	31096
359 08:38:40	140.37	31097
359 10:20:40	114.87	31098
359 12:02:39	89.38	31099
359 13:44:39	63.88	31100
359 15:26:38	38.39	31101
359 17:08:38	12.89	31102
359 18:50:37	-12.60	31103
359 20:32:37	-38.10	31104
359 22:14:36	-63.59	31105
359 23:56:36	-89.09	31106

359 00:23:06	-76.46	22174
359 02:04:18	-101.76	22175
359 03:45:30	-127.06	22176
359 05:26:42	-152.36	22177
359 07:07:54	-177.66	22178
359 08:49:06	157.04	22179
359 10:30:19	131.73	22180
359 12:11:31	106.43	22181
359 13:52:43	81.13	22182
359 15:33:55	55.83	22183
359 17:15:07	30.53	22184
359 18:56:19	5.24	22185
359 20:37:32	-20.08	22186
359 22:18:44	-45.38	22187
359 23:59:56	-70.68	22188

359 00:58:36	-160.33	11589
359 02:40:39	174.17	11590
359 04:22:43	148.65	11591
359 06:04:47	123.13	11592
359 07:46:51	97.62	11593
359 09:28:55	72.10	11594
359 11:10:58	46.59	11595
359 12:53:02	21.08	11596
359 14:35:06	-4.44	11597
359 16:17:10	-29.96	11598
359 17:59:14	-55.48	11599
359 19:41:17	-80.98	11600
359 21:23:21	-106.50	11601
359 23:05:25	-132.01	11602

360 01:38:35	-114.58	31107
360 03:20:35	-140.08	31108
360 05:02:35	-165.58	31109
360 06:44:34	168.93	31110
360 08:26:34	143.43	31111
360 10:08:33	117.94	31112
360 11:50:33	92.44	31113
360 13:32:32	66.95	31114
360 15:14:32	41.45	31115
360 16:56:31	15.96	31116
360 18:38:31	-9.54	31117
360 20:20:30	-35.03	31118
360 22:02:30	-60.53	31119
360 23:44:29	-86.02	31120

360 01:41:08	-95.97	22189
360 03:22:20	-121.27	22190
360 05:03:32	-146.57	22191
360 06:44:44	-171.87	22192
360 08:25:57	162.82	22193
360 10:07:09	137.52	22194
360 11:43:21	112.22	22195
360 13:29:33	86.92	22196
360 15:10:45	61.62	22197
360 16:51:57	36.32	22198
360 18:33:10	11.01	22199
360 20:14:22	-14.29	22200
360 21:55:34	-79.59	22201
360 23:36:46	-64.89	22202

360 00:47:29	-157.53	11603
360 02:29:33	176.95	11604
360 04:11:36	151.45	11605
360 05:53:40	125.93	11606
360 07:35:44	100.41	11607
360 09:17:48	74.90	11608
360 10:59:52	49.38	11609
360 12:41:55	23.87	11610
360 14:23:59	-1.64	11611
360 16:06:03	-27.16	11612
360 17:48:07	-52.68	11613
360 19:30:11	-78.20	11614
360 21:12:14	-103.70	11615
360 22:54:18	-129.22	11616

361 01:26:29	-111.52	31121
361 03:08:28	-137.01	31122
361 04:50:28	-162.51	31123
361 06:32:27	172.00	31124
361 08:14:27	146.50	31125
361 09:56:26	121.01	31126
361 11:38:26	95.51	31127
361 13:20:25	70.02	31128
361 15:02:25	44.52	31129
361 16:44:24	19.03	31130
361 18:26:24	-6.47	31131
361 20:08:23	-31.96	31132
361 21:50:23	-57.46	31133
361 23:32:23	-82.96	31134

361 01:17:58	-90.19	22203
361 02:59:10	-115.49	22204
361 04:40:22	-140.79	22205
361 06:21:35	-166.10	22206
361 08:02:47	168.60	22207
361 09:43:59	143.30	22208
361 11:25:11	118.00	22209
361 13:06:23	92.70	22210
361 14:47:35	67.40	22211
361 16:28:48	42.09	22212
361 18:10:00	16.79	22213
361 19:51:12	-8.51	22214
361 21:32:24	-33.81	22215
361 23:13:36	-59.11	22216

361 00:36:22	-154.73	11617
361 02:18:26	179.75	11618
361 04:00:30	154.23	11619
361 05:42:33	128.73	11620
361 07:24:37	103.21	11621
361 09:06:41	77.69	11622
361 10:48:45	52.17	11623
361 12:30:49	26.66	11624
361 14:12:52	1.15	11625
361 15:54:56	-24.36	11626
361 17:37:00	-49.88	11627
361 19:19:04	-75.40	11628
361 21:01:08	-100.92	11629
361 22:43:11	-126.42	11630

SATELLITE C4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

362 00:06:36	44.22	7432
362 01:51:30	17.88	7433
362 03:36:23	-8.47	7434
362 05:21:17	-34.82	7435
362 07:06:10	-61.17	7436
362 08:51:04	-87.52	7437
362 10:35:57	-113.87	7438
362 12:20:51	-140.22	7439
362 14:05:45	-166.56	7440
362 15:50:38	167.09	7441
362 17:35:32	140.74	7442
362 19:20:25	114.39	7443
362 21:05:19	88.04	7444
362 22:50:12	61.69	7445

SATELLITE C5

Ascending Node Predictions
Predicting for 185 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

362 01:02:28	165.15	4162
362 02:47:23	138.79	4163
362 04:32:18	112.44	4164
362 06:17:14	86.08	4165
362 08:02:09	59.72	4166
362 09:47:05	33.37	4167
362 11:32:00	7.01	4168
362 13:16:55	-19.34	4169
362 15:01:51	-45.70	4170
362 16:46:46	-72.05	4171
362 18:31:41	-98.41	4172
362 20:16:37	-124.77	4173
362 22:01:32	-151.12	4174
362 23:46:27	-177.48	4175

363 00:35:06	35.34	7446
363 02:19:59	8.99	7447
363 04:04:53	-17.35	7448
363 05:49:47	-43.70	7449
363 07:34:40	-70.05	7450
363 09:19:34	-96.40	7451
363 11:04:27	-122.75	7452
363 12:49:21	-149.10	7453
363 14:34:14	-175.45	7454
363 16:19:08	159.21	7455
363 18:04:01	131.86	7456
363 19:48:55	105.51	7457
363 21:33:48	79.16	7458
363 23:18:42	52.81	7459

363 01:31:23	156.17	4176
363 03:16:18	129.81	4177
363 05:01:13	103.45	4178
363 06:46:09	77.10	4179
363 08:31:04	50.74	4180
363 10:15:59	24.38	4181
363 12:00:55	-1.97	4182
363 13:45:50	-28.33	4183
363 15:30:45	-54.69	4184
363 17:15:41	-81.04	4185
363 19:00:36	-107.40	4186
363 20:45:31	-133.75	4187
363 22:30:27	-160.11	4188

364 01:03:36	26.46	7460
364 02:48:29	.11	7461
364 04:33:23	-26.23	7462
364 06:18:16	-52.58	7463
364 08:03:10	-78.93	7464
364 09:48:03	-105.28	7465
364 11:32:57	-131.63	7466
364 13:17:50	-157.98	7467
364 15:02:44	175.67	7468
364 16:47:37	149.32	7469
364 18:32:31	122.98	7470
364 20:17:25	96.63	7471
364 22:02:18	70.28	7472
364 23:47:12	43.93	7473

364 00:15:22	173.54	4189
364 02:00:17	147.18	4190
364 03:45:13	120.82	4191
364 05:30:08	94.47	4192
364 07:15:03	68.11	4193
364 08:59:59	41.76	4194
364 10:44:54	15.40	4195
364 12:29:49	-10.96	4196
364 14:14:45	-37.31	4197
364 15:59:40	-63.67	4198
364 17:44:35	-90.03	4199
364 19:29:31	-116.38	4200
364 21:14:26	-142.74	4201
364 22:59:21	-169.09	4202

365 01:32:05	17.58	7474
365 03:16:59	-8.77	7475
365 05:01:52	-35.12	7476
365 06:46:46	-61.46	7477
365 08:31:39	-87.81	7478
365 10:16:33	-114.16	7479
365 12:01:27	-140.51	7480
365 13:46:20	-166.86	7481
365 15:31:14	166.79	7482
365 17:16:07	140.44	7483
365 19:01:01	114.10	7484
365 20:45:54	87.75	7485
365 22:30:48	61.40	7486

365 00:44:17	164.55	4203
365 02:29:12	138.19	4204
365 04:14:07	111.84	4205
365 05:59:03	85.48	4206
365 07:43:58	59.13	4207
365 09:28:53	32.77	4208
365 11:13:49	6.41	4209
365 12:58:44	-19.94	4210
365 14:43:39	-46.30	4211
365 16:28:35	-72.65	4212
365 18:13:30	-99.01	4213
365 19:58:25	-125.37	4214
365 21:43:21	-151.72	4215
365 23:28:16	-178.08	4216

SATELLITE S2
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

362 01:14:22	-108.45	31135
362 02:56:22	-133.95	31136
362 04:38:21	-159.44	31137
362 06:20:21	175.06	31138
362 08:02:20	149.57	31139
362 09:44:20	124.06	31140
362 11:26:19	98.58	31141
362 13:08:19	73.07	31142
362 14:50:18	47.59	31143
362 16:32:18	22.08	31144
362 18:14:17	-3.40	31145
362 19:56:17	-28.91	31146
362 21:38:16	-54.39	31147
362 23:20:16	-79.90	31148

SATELLITE S3
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

362 00:54:48	-84.41	22217
362 02:36:01	-109.72	22218
362 04:17:13	-135.02	22219
362 05:58:25	-160.32	22220
362 07:39:37	174.38	22221
362 09:20:49	149.09	22222
362 11:02:01	123.79	22223
362 12:43:13	98.49	22224
362 14:24:26	73.17	22225
362 16:05:38	47.88	22226
362 17:46:50	22.58	22227
362 19:28:02	-2.72	22228
362 21:09:14	-28.02	22229
362 22:50:26	-53.32	22230

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

362 00:25:15	-151.94	11631
362 02:07:19	-177.46	11632
362 03:49:23	157.03	11633
362 05:31:27	131.51	11634
362 07:13:30	106.01	11635
362 08:55:34	80.49	11636
362 10:37:38	54.97	11637
362 12:19:42	29.45	11638
362 14:01:46	3.94	11639
362 15:43:49	-21.57	11640
362 17:25:53	-47.09	11641
362 19:07:57	-72.60	11642
362 20:50:01	-98.12	11643
362 22:32:05	-123.64	11644

363 01:02:15	-105.38	31149
363 02:44:15	-130.89	31150
363 04:26:14	-156.37	31151
363 06:08:14	178.12	31152
363 07:50:13	152.64	31153
363 09:32:13	127.13	31154
363 11:14:12	101.65	31155
363 12:56:12	76.14	31156
363 14:38:12	50.64	31157
363 16:20:11	25.15	31158
363 18:02:11	-35	31159
363 19:44:10	-25.84	31160
363 21:26:10	-51.34	31161
363 23:08:09	-76.83	31162

363 00:31:39	-78.63	22231
363 02:12:51	-103.93	22232
363 03:54:03	-129.23	22233
363 05:35:15	-154.53	22234
363 07:16:27	-179.83	22235
363 08:57:39	154.87	22236
363 10:38:51	129.57	22237
363 12:20:04	104.26	22238
363 14:01:16	78.96	22239
363 15:42:28	53.66	22240
363 17:23:40	28.36	22241
363 19:04:52	3.06	22242
363 20:46:04	-22.24	22243
363 22:27:17	-47.55	22244

363 00:14:08	-149.14	11645
363 01:56:12	-174.66	11646
363 03:38:16	159.82	11647
363 05:20:20	134.31	11648
363 07:02:24	108.79	11649
363 08:44:27	83.29	11650
363 10:26:31	57.77	11651
363 12:08:35	32.25	11652
363 13:50:39	6.73	11653
363 15:32:43	-18.78	11654
363 17:14:46	-44.29	11655
363 18:56:50	-69.81	11656
363 20:38:54	-95.32	11657
363 22:20:58	-120.84	11658

364 00:50:09	-102.33	31163
364 02:32:08	-127.82	31164
364 04:14:08	-153.32	31165
364 05:56:07	-178.81	31166
364 07:38:07	155.69	31167
364 09:20:06	130.20	31168
364 11:02:06	104.70	31169
364 12:44:05	79.21	31170
364 14:26:05	53.71	31171
364 16:08:04	28.22	31172
364 17:50:04	2.72	31173
364 19:32:03	-22.77	31174
364 21:14:03	-48.27	31175
364 22:56:02	-73.76	31176

364 00:08:29	-72.85	22245
364 01:49:41	-98.15	22246
364 03:30:53	-123.45	22247
364 05:12:05	-148.75	22248
364 06:53:17	-174.05	22249
364 08:34:29	160.65	22250
364 10:15:42	135.34	22251
364 11:56:54	110.04	22252
364 13:38:06	84.74	22253
364 15:19:18	59.44	22254
364 17:00:30	34.14	22255
364 18:41:42	8.85	22256
364 20:22:55	-16.47	22257
364 22:04:07	-41.77	22258
364 23:45:19	-67.07	22259

364 00:03:02	-146.36	11659
364 01:45:05	-171.86	11660
364 03:27:09	162.62	11661
364 05:09:13	137.10	11662
364 06:51:17	111.59	11663
364 08:33:21	86.07	11664
364 10:15:24	60.56	11665
364 11:57:28	35.05	11666
364 13:39:32	9.53	11667
364 15:21:36	-15.99	11668
364 17:03:40	-41.51	11669
364 18:45:43	-67.01	11670
364 20:27:47	-92.53	11671
364 22:09:51	-118.04	11672
364 23:51:55	-143.56	11673

365 00:38:02	-99.26	31177
365 02:20:01	-124.75	31178
365 04:02:01	-150.25	31179
365 05:44:00	-175.74	31180
365 07:26:00	158.76	31181
365 09:08:00	133.26	31182
365 10:49:59	107.77	31183
365 12:31:59	82.27	31184
365 14:13:58	56.78	31185
365 15:55:58	31.28	31186
365 17:37:57	5.79	31187
365 19:19:57	-19.71	31188
365 21:01:56	-45.20	31189
365 22:43:56	-70.70	31190

365 01:26:31	-92.36	22260
365 03:07:43	-117.66	22261
365 04:48:55	-142.96	22262
365 06:30:07	-168.26	22263
365 08:11:20	166.43	22264
365 09:52:32	141.13	22265
365 11:33:44	115.83	22266
365 13:14:56	90.53	22267
365 14:56:08	65.23	22268
365 16:37:20	39.93	22269
365 18:18:33	14.62	22270
365 19:59:45	-10.68	22271
365 21:40:57	-35.98	22272
365 23:22:09	-61.28	22273

365 01:33:59	-169.08	11674
365 03:16:02	165.42	11675
365 04:58:06	139.90	11676
365 06:40:10	114.38	11677
365 08:22:14	88.86	11678
365 10:04:18	63.35	11679
365 11:46:21	37.84	11680
365 13:28:25	12.33	11681
365 15:10:29	-13.19	11682
365 16:52:33	-38.71	11683
365 18:34:37	-64.23	11684
365 20:16:40	-89.73	11685
365 21:58:44	-115.25	11686
365 23:40:48	-140.77	11687

SATELLITE C4			
Ascending Node Predictions			
Predicting for 183 days			
TIME (GMT)	E LONG	ORBIT	
day hr mn sc	deg dg		
001 00:15:41	35.05	7487	
001 02:00:35	8.70	7488	
001 03:45:28	-17.65	7489	
001 05:30:22	-44.00	7490	
001 07:15:16	-70.34	7491	
001 09:00:09	-96.70	7492	
001 10:45:03	-123.04	7493	
001 12:29:56	-149.39	7494	
001 14:14:50	-175.74	7495	
001 15:59:43	157.91	7496	
001 17:44:37	131.56	7497	
001 19:29:30	105.21	7498	
001 21:14:24	78.86	7499	
001 22:59:18	52.52	7500	

SATELLITE C5			
Ascending Node Predictions			
Predicting for 185 days			
TIME (GMT)	E LONG	ORBIT	
day hr mn sc	deg dg		
001 01:13:11	155.56	4217	
001 02:58:07	129.21	4218	
001 04:43:02	102.85	4219	
001 06:27:57	76.50	4220	
001 08:12:53	50.14	4221	
001 09:57:48	23.78	4222	
001 11:42:43	-2.57	4223	
001 13:27:39	-28.93	4224	
001 15:12:34	-55.28	4225	
001 16:57:29	-81.64	4226	
001 18:42:25	-108.00	4227	
001 20:27:20	-134.35	4228	
001 22:12:15	-160.71	4229	
001 23:57:11	172.94	4230	

002 00:44:11	26.17	7501
002 02:29:05	-18	7502
002 04:13:58	-26.53	7503
002 05:58:52	-52.88	7504
002 07:43:45	-79.23	7505
002 09:28:39	-105.58	7506
002 11:13:32	-131.93	7507
002 12:58:26	-158.27	7508
002 14:43:19	175.38	7509
002 16:28:13	149.03	7510
002 18:13:07	122.68	7511
002 19:58:00	96.33	7512
002 21:42:54	69.98	7513
002 23:27:47	43.63	7514

002 01:42:06	146.58	4231
002 03:27:01	120.22	4232
002 05:11:57	93.87	4233
002 06:56:52	67.51	4234
002 08:41:48	41.16	4235
002 10:26:43	14.80	4236
002 12:11:38	-11.56	4237
002 13:56:34	-37.91	4238
002 15:41:29	-64.27	4239
002 17:26:24	-90.63	4240
002 19:11:20	-116.98	4241
002 20:56:15	-143.34	4242
002 22:41:10	-169.69	4243

003 01:12:41	17.29	7515
003 02:57:34	-9.06	7516
003 04:42:28	-35.41	7517
003 06:27:21	-61.76	7518
003 08:12:15	-88.11	7519
003 09:57:09	-114.46	7520
003 11:42:02	-140.81	7521
003 13:26:56	-167.15	7522
003 15:11:49	166.50	7523
003 16:56:43	140.15	7524
003 18:41:36	113.80	7525
003 20:26:30	87.45	7526
003 22:11:23	61.10	7527
003 23:56:17	34.75	7528

003 00:26:06	163.95	4244
003 02:11:01	137.59	4245
003 03:55:56	111.24	4246
003 05:40:52	84.88	4247
003 07:25:47	58.53	4248
003 09:10:42	32.17	4249
003 10:55:38	5.82	4250
003 12:40:33	-20.54	4251
003 14:25:28	-46.90	4252
003 16:10:24	-73.25	4253
003 17:55:19	-99.61	4254
003 19:40:14	-125.97	4255
003 21:25:10	-152.32	4256
003 23:10:05	-178.68	4257

004 01:41:11	8.41	7529
004 03:26:04	-17.94	7530
004 05:10:58	-44.29	7531
004 06:55:51	-70.64	7532
004 08:40:45	-96.99	7533
004 10:25:38	-123.34	7534
004 12:10:32	-149.69	7535
004 13:55:25	-176.04	7536
004 15:40:19	157.62	7537
004 17:25:12	131.27	7538
004 19:10:06	104.92	7539
004 20:55:00	78.57	7540
004 22:39:53	52.22	7541

004 00:55:00	154.96	4258
004 02:39:56	128.61	4259
004 04:24:51	102.25	4260
004 06:09:46	75.90	4261
004 07:54:42	49.54	4262
004 09:39:37	23.19	4263
004 11:24:32	-3.17	4264
004 13:09:28	-29.53	4265
004 14:54:23	-55.88	4266
004 16:39:18	-82.24	4267
004 18:24:14	-108.59	4268
004 20:09:09	-134.95	4269
004 21:54:04	-161.31	4270
004 23:39:00	172.34	4271

SATELLITE S2**Ascending Node Predictions**

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

001 00:25:55	-96.19	31191
001 02:07:55	-121.69	31192
001 03:49:54	-147.18	31193
001 05:31:54	-172.68	31194
001 07:13:53	161.83	31195
001 08:55:53	136.33	31196
001 10:37:52	110.84	31197
001 12:19:52	85.34	31198
001 14:01:51	59.85	31199
001 15:43:51	34.35	31200
001 17:25:50	8.86	31201
001 19:07:50	-16.64	31202
001 20:49:49	-42.13	31203
001 22:31:49	-67.63	31204

SATELLITE S3**Ascending Node Predictions**

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

001 01:03:21	-86.58	22274
001 02:44:33	-111.88	22275
001 04:25:45	-137.18	22276
001 06:06:58	-162.49	22277
001 07:48:10	172.21	22278
001 09:29:22	146.91	22279
001 11:10:34	121.61	22280
001 12:51:46	96.31	22281
001 14:32:58	71.01	22282
001 16:14:11	45.70	22283
001 17:55:23	20.40	22284
001 19:36:35	-4.90	22285
001 21:17:47	-30.20	22286
001 22:58:59	-55.50	22287

SATELLITE S4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

001 01:22:52	-166.28	11688
001 03:04:56	168.20	11689
001 04:46:59	142.70	11690
001 06:29:03	117.18	11691
001 08:11:07	91.66	11692
001 09:53:11	66.14	11693
001 11:35:15	40.63	11694
001 13:17:18	15.12	11695
001 14:59:22	-10.40	11696
001 16:41:26	-35.91	11697
001 18:23:30	-61.43	11698
001 20:05:34	-86.95	11699
001 21:47:37	-112.45	11700
001 23:29:41	-137.97	11701

002 00:13:49	-93.13	31205
002 01:55:48	-118.62	31206
002 03:37:48	-144.12	31207
002 05:19:47	-169.61	31208
002 07:01:47	164.89	31209
002 08:43:46	139.40	31210
002 10:25:46	113.89	31211
002 12:07:45	88.41	31212
002 13:49:45	62.90	31213
002 15:31:44	37.42	31214
002 17:13:44	11.91	31215
002 18:55:43	-13.57	31216
002 20:37:43	-39.08	31217
002 22:19:42	-64.56	31218

002 00:40:11	-80.80	22288
002 02:21:23	-106.10	22289
002 04:02:36	-131.91	22290
002 05:43:48	-156.71	22291
002 07:25:00	177.99	22292
002 09:06:12	152.69	22293
002 10:47:24	127.40	22294
002 12:28:36	102.10	22295
002 14:09:49	76.78	22296
002 15:51:01	51.48	22297
002 17:32:13	26.19	22298
002 19:13:25	.89	22299
002 20:54:37	-24.41	22300
002 22:35:49	-49.71	22301

002 01:11:45	-163.49	11702
002 02:53:49	171.00	11703
002 04:35:53	145.48	11704
002 06:17:56	119.97	11705
002 08:00:00	94.46	11706
002 09:42:04	68.94	11707
002 11:24:08	43.42	11708
002 13:06:11	17.92	11709
002 14:48:15	-7.60	11710
002 16:30:19	-33.12	11711
002 18:12:23	-58.63	11712
002 19:54:27	-84.15	11713
002 21:36:30	-109.66	11714
002 23:18:34	-135.17	11715

003 00:01:42	-90.07	31219
003 01:43:41	-115.55	31220
003 03:25:41	-141.06	31221
003 05:07:40	-166.54	31222
003 06:49:40	167.95	31223
003 08:31:39	142.47	31224
003 10:13:39	116.96	31225
003 11:55:38	91.48	31226
003 13:37:38	65.97	31227
003 15:19:37	40.49	31228
003 17:01:37	14.98	31229
003 18:43:37	-10.52	31230
003 20:25:36	-36.01	31231
003 22:07:36	-61.51	31232
003 23:49:35	-87.00	31233

003 00:17:01	-75.01	22302
003 01:58:14	-100.32	22303
003 03:39:26	-125.62	22304
003 05:20:38	-150.92	22305
003 07:01:50	-176.22	22306
003 08:43:02	158.48	22307
003 10:24:14	133.18	22308
003 12:05:27	107.87	22309
003 13:46:39	82.57	22310
003 15:27:51	57.27	22311
003 17:09:03	31.97	22312
003 18:50:15	6.67	22313
003 20:31:27	-18.63	22314
003 22:12:39	-43.93	22315
003 23:53:52	-69.24	22316

003 01:00:38	-160.69	11716
003 02:42:42	173.79	11717
003 04:24:46	148.28	11718
003 06:06:49	122.77	11719
003 07:48:53	97.25	11720
003 09:30:57	71.74	11721
003 11:13:01	46.22	11722
003 12:55:05	20.70	11723
003 14:37:08	-4.80	11724
003 16:19:12	-30.32	11725
003 18:01:16	-55.84	11726
003 19:43:20	-81.35	11727
003 21:25:24	-106.87	11728
003 23:07:27	-132.38	11729

004 01:31:35	-112.50	31234
004 03:13:34	-137.99	31235
004 04:55:34	-163.49	31236
004 06:37:33	171.02	31237
004 08:19:33	145.52	31238
004 10:01:32	120.03	31239
004 11:43:32	94.53	31240
004 13:25:31	69.04	31241
004 15:07:31	43.54	31242
004 16:49:30	18.05	31243
004 18:31:30	-7.45	31244
004 20:13:29	-32.94	31245
004 21:55:29	-58.44	31246
004 23:37:28	-83.93	31247

004 01:35:04	-94.54	22317
004 03:16:16	-119.84	22318
004 04:57:28	-145.14	22319
004 06:38:40	-170.44	22320
004 08:19:52	164.26	22321
004 10:01:04	138.96	22322
004 11:42:17	113.65	22323
004 13:23:29	88.35	22324
004 15:04:41	63.03	22325
004 16:45:53	37.75	22326
004 18:27:05	12.45	22327
004 20:08:17	-12.84	22328
004 21:49:30	-38.16	22329
004 23:30:42	-63.46	22330

004 00:49:31	-157.89	11730
004 02:31:35	176.59	11731
004 04:13:39	151.07	11732
004 05:55:43	125.55	11733
004 07:37:46	100.05	11734
004 09:19:50	74.53	11735
004 11:01:54	49.01	11736
004 12:43:58	23.50	11737
004 14:26:02	-2.02	11738
004 16:08:05	-27.52	11739
004 17:50:09	-53.04	11740
004 19:32:13	-78.56	11741
004 21:14:17	-104.08	11742
004 22:56:21	-129.59	11743

SATELLITE C4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) E LONG ORBIT

day hr mn sc deg dg

005 00:24:47	25.87	7542
005 02:09:40	-48	7543
005 03:54:34	-26.82	7544
005 05:39:27	-53.17	7545
005 07:24:21	-79.52	7546
005 09:09:14	-105.87	7547
005 10:54:08	-132.22	7548
005 12:39:02	-158.57	7549
005 14:23:55	175.08	7550
005 16:08:49	148.74	7551
005 17:53:42	122.39	7552
005 19:38:36	96.04	7553
005 21:23:29	69.69	7554
005 23:08:23	43.34	7555

SATELLITE C5
Ascending Node Predictions

Predicting for 185 days

TIME (GMT) E LONG ORBIT

day hr mn sc deg dg

005 01:23:55	145.98	4272
005 03:08:50	119.62	4273
005 04:53:46	93.27	4274
005 06:38:41	66.91	4275
005 08:23:36	40.56	4276
005 10:08:32	14.20	4277
005 11:53:27	-12.16	4278
005 13:38:22	-38.51	4279
005 15:23:18	-64.87	4280
005 17:08:13	-91.22	4281
005 18:53:08	-117.58	4282
005 20:38:04	-143.94	4283
005 22:22:59	-170.29	4284

006 00:53:16	16.99	7556
006 02:38:10	-9.36	7557
006 04:23:03	-35.71	7558
006 06:07:57	-62.05	7559
006 07:52:51	-88.40	7560
006 09:37:44	-114.75	7561
006 11:22:38	-141.10	7562
006 13:07:31	-167.45	7563
006 14:52:25	166.20	7564
006 16:37:18	139.85	7565
006 18:22:12	113.51	7566
006 20:07:05	87.16	7567
006 21:51:59	60.81	7568
006 23:36:53	34.46	7569

006 00:07:54	163.35	4285
006 01:52:50	137.00	4286
006 03:37:45	110.64	4287
006 05:22:40	84.28	4288
006 07:07:36	57.93	4289
006 08:52:31	31.57	4290
006 10:37:26	5.21	4291
006 12:22:22	-21.14	4292
006 14:07:17	-47.50	4293
006 15:52:12	-73.85	4294
006 17:37:08	-100.21	4295
006 19:22:03	-126.57	4296
006 21:06:58	-152.92	4297
006 22:51:54	-179.28	4298

007 01:21:46	8.11	7570
007 03:06:40	-18.24	7571
007 04:51:33	-44.59	7572
007 06:36:27	-70.93	7573
007 08:21:20	-97.28	7574
007 10:06:14	-123.63	7575
007 11:51:07	-149.98	7576
007 13:36:01	-176.33	7577
007 15:20:55	157.32	7578
007 17:05:48	130.97	7579
007 18:50:42	104.63	7580
007 20:35:35	78.28	7581
007 22:20:29	51.93	7582

007 00:36:49	154.37	4299
007 02:21:44	128.01	4300
007 04:06:40	101.66	4301
007 05:51:35	75.30	4302
007 07:36:30	48.94	4303
007 09:21:26	22.59	4304
007 11:06:21	-3.77	4305
007 12:51:16	-30.13	4306
007 14:36:12	-56.48	4307
007 16:21:07	-82.84	4308
007 18:06:02	-109.19	4309
007 19:50:58	-135.55	4310
007 21:35:53	-161.91	4311
007 23:20:48	171.74	4312

008 00:05:22	25.58	7583
008 01:50:16	-77	7584
008 03:35:09	-27.12	7585
008 05:20:03	-53.47	7586
008 07:04:57	-79.81	7587
008 08:49:50	-106.16	7588
008 10:34:44	-132.51	7589
008 12:19:37	-158.86	7590
008 14:04:31	174.79	7591
008 15:49:24	148.44	7592
008 17:34:18	122.09	7593
008 19:19:11	95.74	7594
008 21:04:05	69.39	7595
008 22:48:58	43.04	7596

008 01:05:44	145.38	4313
008 02:50:39	119.03	4314
008 04:35:34	92.67	4315
008 06:20:30	66.31	4316
008 08:05:25	39.96	4317
008 09:50:20	13.60	4318
008 11:35:16	-12.75	4319
008 13:20:11	-39.11	4320
008 15:05:06	-65.47	4321
008 16:50:02	-91.82	4322
008 18:34:57	-118.18	4323
008 20:19:52	-144.54	4324
008 22:04:48	-170.89	4325
008 23:49:43	162.75	4326

SATELLITE S2
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

005 01:19:28 -109.43 31248
 005 03:01:27 -134.92 31249
 005 04:43:27 -160.42 31250
 005 06:25:26 174.09 31251
 005 08:07:26 148.59 31252
 005 09:49:25 123.10 31253
 005 11:31:25 97.60 31254
 005 13:13:25 72.10 31255
 005 14:55:24 46.61 31256
 005 16:37:24 21.11 31257
 005 18:19:23 -4.38 31258
 005 20:01:23 -29.88 31259
 005 21:43:22 -55.37 31260
 005 23:25:22 -80.87 31261

SATELLITE S3
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

005 01:11:54 -88.76 22331
 005 02:53:06 -114.06 22332
 005 04:34:18 -139.35 22333
 005 06:15:30 -164.65 22334
 005 07:56:42 170.05 22335
 005 09:37:55 144.73 22336
 005 11:19:07 119.44 22337
 005 13:00:19 94.14 22338
 005 14:41:31 68.84 22339
 005 16:22:43 43.54 22340
 005 18:03:55 18.24 22341
 005 19:45:08 -7.07 22342
 005 21:26:20 -32.37 22343
 005 23:07:32 -57.67 22344

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

005 00:38:24 -155.10 11744
 005 02:20:28 179.38 11745
 005 04:02:32 153.87 11746
 005 05:44:36 128.35 11747
 005 07:26:40 102.83 11748
 005 09:08:43 77.33 11749
 005 10:50:47 51.81 11750
 005 12:32:51 26.29 11751
 005 14:14:55 -7.78 11752
 005 15:56:59 -24.74 11753
 005 17:39:02 -50.25 11754
 005 19:21:06 -75.76 11755
 005 21:03:10 -101.28 11756
 005 22:45:14 -126.80 11757

006 01:07:21 -106.36 31262
 006 02:49:21 -131.86 31263
 006 04:31:20 -157.35 31264
 006 06:13:20 177.15 31265
 006 07:55:19 151.66 31266
 006 09:37:19 126.16 31267
 006 11:19:18 100.67 31268
 006 13:01:18 75.17 31269
 006 14:43:17 49.68 31270
 006 16:25:17 24.18 31271
 006 18:07:16 -1.31 31272
 006 19:49:16 -26.81 31273
 006 21:31:15 -52.30 31274
 006 23:13:15 -77.80 31275

006 00:48:44 -82.97 22345
 006 02:29:56 -108.27 22346
 006 04:11:08 -133.57 22347
 006 05:52:20 -158.87 22348
 006 07:33:33 175.82 22349
 006 09:14:45 150.52 22350
 006 10:55:57 125.22 22351
 006 12:37:09 99.92 22352
 006 14:18:21 74.62 22353
 006 15:59:33 49.32 22354
 006 17:40:45 24.02 22355
 006 19:21:58 -1.29 22356
 006 21:03:10 -26.59 22357
 006 22:44:22 -51.89 22358

006 00:27:18 -152.31 11758
 006 02:09:21 -177.82 11759
 006 03:51:25 156.66 11760
 006 05:33:29 131.15 11761
 006 07:15:33 105.63 11762
 006 08:57:37 80.11 11763
 006 10:39:40 54.61 11764
 006 12:21:44 29.09 11765
 006 14:03:48 3.57 11766
 006 15:45:52 -21.94 11767
 006 17:27:55 -47.45 11768
 006 19:09:59 -72.97 11769
 006 20:52:03 -98.48 11770
 006 22:34:07 -124.00 11771

007 00:55:14 -103.29 31276
 007 02:37:14 -128.79 31277
 007 04:19:13 -154.29 31278
 007 06:01:13 -179.78 31279
 007 07:43:13 154.71 31280
 007 09:25:12 129.23 31281
 007 11:07:12 103.72 31282
 007 12:49:11 78.24 31283
 007 14:31:11 52.73 31284
 007 16:13:10 27.25 31285
 007 17:55:10 -1.74 31286
 007 19:37:09 -23.74 31287
 007 21:19:09 -49.25 31288
 007 23:01:08 -74.73 31289

007 00:25:34 -77.19 22359
 007 02:06:46 -102.49 22360
 007 03:47:58 -127.79 22361
 007 05:29:11 -153.10 22362
 007 07:10:23 -178.40 22363
 007 08:51:35 156.30 22364
 007 10:32:47 131.00 22365
 007 12:13:59 105.70 22366
 007 13:55:11 80.40 22367
 007 15:36:23 55.11 22368
 007 17:17:36 29.79 22369
 007 18:58:48 4.49 22370
 007 20:40:00 -20.81 22371
 007 22:21:12 -46.10 22372

007 00:16:11 -149.52 11772
 007 01:58:14 -175.02 11773
 007 03:40:18 159.46 11774
 007 05:22:22 133.94 11775
 007 07:04:26 108.42 11776
 007 08:46:30 82.91 11777
 007 10:28:33 57.40 11778
 007 12:10:37 31.89 11779
 007 13:52:41 6.37 11780
 007 15:34:45 -19.15 11781
 007 17:16:49 -44.67 11782
 007 18:58:52 -70.17 11783
 007 20:40:56 -95.69 11784
 007 22:23:00 -121.21 11785

008 00:43:08 -100.24 31290
 008 02:25:07 -125.72 31291
 008 04:07:07 -151.23 31292
 008 05:49:06 -176.71 31293
 008 07:31:06 157.78 31294
 008 09:13:05 132.30 31295
 008 10:55:05 106.79 31296
 008 12:37:04 81.31 31297
 008 14:19:04 55.80 31298
 008 16:01:03 30.32 31299
 008 17:43:03 4.81 31300
 008 19:25:02 -20.67 31301
 008 21:07:02 -46.18 31302
 008 22:49:01 -71.67 31303

008 00:02:24 -71.40 22373
 008 01:43:36 -96.70 22374
 008 03:24:49 -122.02 22375
 008 05:06:01 -147.31 22376
 008 06:47:13 -172.61 22377
 008 08:28:25 162.09 22378
 008 10:09:37 136.79 22379
 008 11:50:49 111.49 22380
 008 13:32:01 86.19 22381
 008 15:13:14 60.88 22382
 008 16:54:26 35.58 22383
 008 18:35:38 10.28 22384
 008 20:16:50 -15.02 22385
 008 21:58:02 -40.32 22386
 008 23:39:14 -65.62 22387

008 00:05:04 -146.72 11786
 008 01:47:08 -172.24 11787
 008 03:29:11 162.26 11788
 008 05:11:15 136.74 11789
 008 06:53:19 111.22 11790
 008 08:35:23 85.70 11791
 008 10:17:27 60.19 11792
 008 11:59:30 34.68 11793
 008 13:41:34 9.16 11794
 008 15:23:38 -16.35 11795
 008 17:05:42 -41.87 11796
 008 18:47:46 -67.39 11797
 008 20:29:49 -92.89 11798
 008 22:11:53 -118.41 11799
 008 23:53:57 -143.93 11800

SATELLITE C4
Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

009 00:33:52	16.70	7597
009 02:18:46	-9.65	7598
009 04:03:39	-36.00	7599
009 05:48:33	-62.35	7600
009 07:33:26	-88.70	7601
009 09:18:20	-115.05	7602
009 11:03:13	-141.40	7603
009 12:48:07	-167.74	7604
009 14:33:00	165.91	7605
009 16:17:54	139.56	7606
009 18:02:48	113.21	7607
009 19:47:41	86.86	7608
009 21:32:35	60.51	7609
009 23:17:28	34.16	7610

SATELLITE C5
Ascending Node Predictions
Predicting for 185 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

009 01:34:38	136.40	4327
009 03:19:34	110.04	4328
009 05:04:29	83.68	4329
009 06:49:24	57.33	4330
009 08:34:19	30.97	4331
009 10:19:15	4.62	4332
009 12:04:10	-21.74	4333
009 13:49:05	-48.10	4334
009 15:34:01	-74.45	4335
009 17:18:56	-100.81	4336
009 19:03:51	-127.17	4337
009 20:48:47	-153.52	4338
009 22:33:42	-179.88	4339

010 01:02:22	7.82	7611
010 02:47:15	-18.53	7612
010 04:32:09	-44.88	7613
010 06:17:02	-71.23	7614
010 08:01:56	-97.58	7615
010 09:46:50	-123.93	7616
010 11:31:43	-150.28	7617
010 13:16:37	-176.62	7618
010 15:01:30	157.03	7619
010 16:46:24	130.68	7620
010 18:31:17	104.33	7621
010 20:16:11	77.98	7622
010 22:01:04	51.63	7623
010 23:45:58	25.28	7624

010 00:18:37	153.77	4340
010 02:03:33	127.41	4341
010 03:48:28	101.06	4342
010 05:33:23	74.70	4343
010 07:18:19	48.34	4344
010 09:03:14	21.99	4345
010 10:48:09	-4.37	4346
010 12:33:05	-30.72	4347
010 14:18:00	-57.08	4348
010 16:02:55	-83.44	4349
010 17:47:51	-109.79	4350
010 19:32:46	-136.15	4351
010 21:17:41	-162.51	4352
010 23:02:37	171.14	4353

011 01:30:52	-1.06	7625
011 03:15:45	-27.41	7626
011 05:00:39	-53.76	7627
011 06:45:32	-80.11	7628
011 08:30:26	-106.46	7629
011 10:15:19	-132.81	7630
011 12:00:13	-159.16	7631
011 13:45:06	174.49	7632
011 15:30:00	148.15	7633
011 17:14:53	121.80	7634
011 18:59:47	95.45	7635
011 20:44:41	69.10	7636
011 22:29:34	42.75	7637

011 00:47:32	144.78	4354
011 02:32:27	118.43	4355
011 04:17:23	92.07	4356
011 06:02:18	65.72	4357
011 07:47:13	39.36	4358
011 09:32:09	13.00	4359
011 11:17:04	-13.35	4360
011 13:01:59	-39.71	4361
011 14:46:55	-66.06	4362
011 16:31:50	-92.42	4363
011 18:16:45	-118.78	4364
011 20:01:41	-145.13	4365
011 21:46:36	-171.49	4366
011 23:31:31	162.15	4367

012 00:14:28	16.40	7638
012 01:59:21	-9.95	7639
012 03:44:15	-36.29	7640
012 05:29:08	-62.64	7641
012 07:14:02	-88.99	7642
012 08:58:55	-115.34	7643
012 10:43:49	-141.69	7644
012 12:28:43	-168.04	7645
012 14:13:36	165.61	7646
012 15:58:30	139.27	7647
012 17:43:23	112.92	7648
012 19:28:17	86.57	7649
012 21:13:10	60.22	7650
012 22:58:04	33.87	7651

012 01:16:27	135.80	4368
012 03:01:22	109.44	4369
012 04:46:17	83.09	4370
012 06:31:13	56.73	4371
012 08:16:08	30.37	4372
012 10:01:03	4.02	4373
012 11:45:59	-22.34	4374
012 13:30:54	-48.69	4375
012 15:15:49	-75.05	4376
012 17:00:45	-101.40	4377
012 18:45:40	-127.76	4378
012 20:30:35	-154.12	4379
012 22:15:31	179.53	4380

SATELLITE S2
Ascending Node Predictions

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

009 00:31:01	-97.17	31304
009 02:13:01	-122.67	31305
009 03:55:00	-148.16	31306
009 05:37:00	-173.66	31307
009 07:18:59	160.85	31308
009 09:00:59	135.35	31309
009 10:42:58	109.86	31310
009 12:24:58	84.36	31311
009 14:06:57	58.87	31312
009 15:48:57	33.37	31313
009 17:30:56	7.88	31314
009 19:12:56	-17.62	31315
009 20:54:55	-43.11	31316
009 22:36:55	-68.61	31317

SATELLITE S3
Ascending Node Predictions

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

009 01:20:26	-90.92	22388
009 03:01:39	-116.23	22389
009 04:42:51	-141.53	22390
009 06:24:03	-166.83	22391
009 08:05:15	167.87	22392
009 09:46:27	142.57	22393
009 11:27:39	117.27	22394
009 13:08:52	91.96	22395
009 14:50:04	66.66	22396
009 16:31:16	41.36	22397
009 18:12:28	16.06	22398
009 19:53:40	-9.24	22399
009 21:34:52	-34.54	22400
009 23:16:04	-59.84	22401

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

009 01:36:01	-169.44	11801
009 03:18:05	165.04	11802
009 05:00:08	139.53	11803
009 06:42:12	114.02	11804
009 08:24:16	88.50	11805
009 10:06:20	62.98	11806
009 11:48:23	37.48	11807
009 13:30:27	11.96	11808
009 15:12:31	-13.56	11809
009 16:54:35	-39.07	11810
009 18:36:39	-64.59	11811
009 20:18:42	-90.10	11812
009 22:00:46	-115.61	11813
009 23:42:50	-141.13	11814

010 00:18:54	-94.10	31318
010 02:00:54	-119.60	31319
010 03:42:53	-145.09	31320
010 05:24:53	-170.59	31321
010 07:06:52	163.92	31322
010 08:48:52	138.42	31323
010 10:30:51	112.93	31324
010 12:12:51	87.43	31325
010 13:54:50	61.94	31326
010 15:36:50	36.44	31327
010 17:18:49	10.95	31328
010 19:00:49	-14.55	31329
010 20:42:49	-40.05	31330
010 22:24:48	-65.54	31331

010 00:57:17	-85.15	22402
010 02:38:29	-110.45	22403
010 04:19:41	-135.75	22404
010 06:00:53	-161.05	22405
010 07:42:05	173.65	22406
010 09:23:17	148.36	22407
010 11:04:29	123.06	22408
010 12:45:42	97.74	22409
010 14:26:54	72.44	22410
010 16:08:06	47.15	22411
010 17:49:18	21.85	22412
010 19:30:30	-3.45	22413
010 21:11:42	-28.75	22414
010 22:52:55	-54.07	22415

010 01:24:54	-166.65	11815
010 03:06:58	167.83	11816
010 04:49:01	142.33	11817
010 06:31:05	116.81	11818
010 08:13:09	91.30	11819
010 09:55:13	65.78	11820
010 11:37:17	40.26	11821
010 13:19:20	14.76	11822
010 15:01:24	-10.76	11823
010 16:43:28	-36.28	11824
010 18:25:32	-61.80	11825
010 20:07:36	-87.31	11826
010 21:49:39	-112.82	11827
010 23:31:43	-138.33	11828

011 00:06:48	-91.04	31332
011 01:49:47	-116.53	31333
011 03:30:47	-142.03	31334
011 05:12:46	-167.52	31335
011 06:54:46	166.98	31336
011 08:36:45	141.49	31337
011 10:18:45	115.99	31338
011 12:00:44	90.50	31339
011 13:42:44	65.00	31340
011 15:24:43	39.51	31341
011 17:06:43	14.01	31342
011 18:48:42	-11.48	31343
011 20:30:42	-36.98	31344
011 22:12:41	-62.47	31345
011 23:54:41	-87.97	31346

011 00:34:07	-79.36	22416
011 02:15:19	-104.66	22417
011 03:56:31	-129.96	22418
011 05:37:43	-155.26	22419
011 07:18:55	179.44	22420
011 09:00:07	154.14	22421
011 10:41:20	128.83	22422
011 12:22:32	103.53	22423
011 14:03:44	78.23	22424
011 15:44:56	52.93	22425
011 17:26:08	27.63	22426
011 19:07:20	2.33	22427
011 20:48:32	-22.97	22428
011 22:29:45	-48.28	22429

011 01:13:47	-163.85	11829
011 02:55:51	170.63	11830
011 04:37:55	145.11	11831
011 06:19:58	119.61	11832
011 08:02:02	94.09	11833
011 09:44:06	68.57	11834
011 11:26:10	43.06	11835
011 13:08:14	17.54	11836
011 14:50:17	-7.97	11837
011 16:32:21	-33.48	11838
011 18:14:25	-59.00	11839
011 19:56:29	-84.52	11840
011 21:38:32	-110.02	11841
011 23:20:36	-135.54	11842

012 01:36:40	-113.46	31347
012 03:18:40	-138.96	31348
012 05:00:39	-164.45	31349
012 06:42:39	170.05	31350
012 08:24:38	144.56	31351
012 10:06:38	119.06	31352
012 11:48:37	93.57	31353
012 13:30:37	68.07	31354
012 15:12:36	42.58	31355
012 16:54:36	17.08	31356
012 18:36:36	-8.43	31357
012 20:18:35	-33.91	31358
012 22:00:35	-59.42	31359
012 23:42:34	-84.90	31360

012 00:10:57	-73.58	22430
012 01:52:09	-98.88	22431
012 03:33:21	-124.18	22432
012 05:14:33	-149.48	22433
012 06:55:45	-174.78	22434
012 08:36:58	159.91	22435
012 10:18:10	134.61	22436
012 11:59:22	109.31	22437
012 13:40:34	84.01	22438
012 15:21:46	58.71	22439
012 17:02:58	33.41	22440
012 18:44:10	8.11	22441
012 20:25:23	-17.20	22442
012 22:06:35	-42.50	22443
012 23:47:47	-67.80	22444

012 01:02:40	-161.06	11843
012 02:44:44	173.43	11844
012 04:26:48	147.91	11845
012 06:08:51	122.40	11846
012 07:50:55	96.89	11847
012 09:32:59	71.37	11848
012 11:15:03	45.85	11849
012 12:57:07	20.33	11850
012 14:39:10	-5.17	11851
012 16:21:14	-30.69	11852
012 18:03:18	-56.20	11853
012 19:45:22	-81.72	11854
012 21:27:26	-107.24	11855
012 23:09:29	-132.74	11856

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

013 00:42:57	7.52	7652
013 02:27:51	-18.83	7653
013 04:12:45	-45.17	7654
013 05:57:38	-71.52	7655
013 07:42:32	-97.87	7656
013 09:27:25	-124.22	7657
013 11:12:19	-150.57	7658
013 12:57:12	-176.92	7659
013 14:42:06	156.73	7660
013 16:26:59	130.38	7661
013 18:11:53	104.04	7662
013 19:56:46	77.68	7663
013 21:41:40	51.34	7664
013 23:26:34	24.99	7665

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

013 00:00:26	153.17	4381
013 01:45:21	126.81	4382
013 03:30:16	100.46	4383
013 05:15:12	74.10	4384
013 07:00:07	47.75	4385
013 08:45:02	21.39	4386
013 10:29:58	-4.97	4387
013 12:14:53	-31.32	4388
013 13:59:48	-57.68	4389
013 15:44:44	-84.03	4390
013 17:29:39	-110.39	4391
013 19:14:34	-136.75	4392
013 20:59:30	-163.10	4393
013 22:44:25	170.54	4394

014 01:11:27	-1.36	7666
014 02:56:21	-27.71	7667
014 04:41:14	-54.06	7668
014 06:26:08	-80.41	7669
014 08:11:01	-106.76	7670
014 09:55:55	-133.10	7671
014 11:40:48	-159.45	7672
014 13:25:42	174.20	7673
014 15:10:36	147.85	7674
014 16:55:29	121.50	7675
014 18:40:23	95.15	7676
014 20:25:16	68.80	7677
014 22:10:10	42.46	7678
014 23:55:03	16.11	7679

014 00:29:20	144.18	4395
014 02:14:16	117.83	4396
014 03:59:11	91.47	4397
014 05:44:06	65.12	4398
014 07:29:02	38.76	4399
014 09:13:57	12.41	4400
014 10:58:52	-13.95	4401
014 12:43:48	-40.31	4402
014 14:28:43	-66.66	4403
014 16:13:38	-93.02	4404
014 17:58:34	-119.37	4405
014 19:43:29	-145.73	4406
014 21:28:24	-172.09	4407
014 23:13:20	161.56	4408

015 01:39:57	-10.24	7680
015 03:24:50	-36.59	7681
015 05:09:44	-62.94	7682
015 06:54:38	-89.29	7683
015 08:39:31	-115.64	7684
015 10:24:25	-141.98	7685
015 12:09:18	-168.33	7686
015 13:54:12	165.32	7687
015 15:39:05	138.97	7688
015 17:23:59	112.62	7689
015 19:08:52	86.27	7690
015 20:53:46	59.92	7691
015 22:38:39	33.57	7692

015 00:58:15	135.20	4409
015 02:43:10	108.84	4410
015 04:28:06	82.49	4411
015 06:13:01	56.13	4412
015 07:57:56	29.78	4413
015 09:42:52	3.42	4414
015 11:27:47	-22.93	4415
015 13:12:42	-49.29	4416
015 14:57:37	-75.65	4417
015 16:42:33	-102.00	4418
015 18:27:28	-128.36	4419
015 20:12:23	-154.72	4420
015 21:57:19	178.93	4421
015 23:42:14	152.57	4422

016 00:23:33	7.23	7693
016 02:08:27	-19.12	7694
016 03:53:20	-45.47	7695
016 05:38:14	-71.82	7696
016 07:23:07	-98.17	7697
016 09:08:01	-124.52	7698
016 10:52:54	-150.87	7699
016 12:37:48	-177.21	7700
016 14:22:41	156.44	7701
016 16:07:35	130.09	7702
016 17:52:29	103.74	7703
016 19:37:22	77.39	7704
016 21:22:16	51.04	7705
016 23:07:09	24.69	7706

016 01:27:09	126.22	4423
016 03:12:05	99.86	4424
016 04:57:00	73.50	4425
016 06:41:55	47.15	4426
016 08:26:51	20.79	4427
016 10:11:46	-5.56	4428
016 11:56:41	-31.92	4429
016 13:41:37	-58.27	4430
016 15:26:32	-84.63	4431
016 17:11:27	-110.99	4432
016 18:56:23	-137.34	4433
016 20:41:18	-163.70	4434
016 22:26:13	169.94	4435

SATELLITE S2
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

013	01:24:34	-110.41	31361
013	03:06:33	-135.90	31362
013	04:48:33	-161.40	31363
013	06:30:32	173.11	31364
013	08:12:32	147.61	31365
013	09:54:31	122.12	31366
013	11:36:31	96.62	31367
013	13:18:30	71.13	31368
013	15:00:30	45.63	31369
013	16:42:29	20.14	31370
013	18:24:29	-5.36	31371
013	20:06:28	-30.85	31372
013	21:48:28	-56.35	31373
013	23:30:27	-81.84	31374

SATELLITE S3
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

013	01:28:59	-93.10	22445
013	03:10:11	-118.40	22446
013	04:51:23	-143.69	22447
013	06:32:35	-168.99	22448
013	08:13:48	165.69	22449
013	09:55:00	140.39	22450
013	11:36:12	115.10	22451
013	13:17:24	89.80	22452
013	14:58:36	64.50	22453
013	16:39:48	39.20	22454
013	18:21:01	13.88	22455
013	20:02:13	-11.41	22456
013	21:43:25	-36.71	22457
013	23:24:37	-62.01	22458

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

013	00:51:33	-158.26	11857
013	02:33:37	176.22	11858
013	04:15:41	150.70	11859
013	05:57:45	125.19	11860
013	07:39:48	99.68	11861
013	09:21:52	74.17	11862
013	11:03:56	48.65	11863
013	12:46:00	23.13	11864
013	14:28:04	-2.39	11865
013	16:10:07	-27.89	11866
013	17:52:11	-53.41	11867
013	19:34:15	-78.93	11868
013	21:16:19	-104.44	11869
013	22:58:22	-129.95	11870

014	01:12:27	-107.34	31375
014	02:54:26	-132.83	31376
014	04:36:26	-158.33	31377
014	06:18:25	176.18	31378
014	08:00:25	150.68	31379
014	09:42:24	125.19	31380
014	11:24:24	99.69	31381
014	13:06:23	74.20	31382
014	14:48:23	48.70	31383
014	16:30:23	23.20	31384
014	18:12:22	-2.29	31385
014	19:54:22	-27.79	31386
014	21:36:21	-53.28	31387
014	23:18:21	-78.78	31388

014	01:05:49	-87.31	22459
014	02:47:01	-112.61	22460
014	04:28:13	-137.91	22461
014	06:09:26	-163.22	22462
014	07:50:38	171.48	22463
014	09:31:50	146.18	22464
014	11:13:02	120.88	22465
014	12:54:14	95.58	22466
014	14:35:26	70.28	22467
014	16:16:38	44.98	22468
014	17:57:51	19.67	22469
014	19:39:03	-5.63	22470
014	21:20:15	-30.93	22471
014	23:01:27	-56.23	22472

014	00:40:26	-155.46	11871
014	02:22:30	179.02	11872
014	04:04:34	153.50	11873
014	05:46:38	127.98	11874
014	07:28:41	102.48	11875
014	09:10:45	76.96	11876
014	10:52:49	51.44	11877
014	12:34:53	25.93	11878
014	14:16:57	.41	11879
014	15:59:00	-25.10	11880
014	17:41:04	-50.61	11881
014	19:23:08	-76.13	11882
014	21:05:12	-101.65	11883
014	22:47:16	-127.17	11884

015	01:00:20	-104.27	31389
015	02:42:20	-129.77	31390
015	04:24:19	-155.26	31391
015	06:06:19	179.24	31392
015	07:48:18	153.75	31393
015	09:30:18	128.25	31394
015	11:12:17	102.76	31395
015	12:54:17	77.26	31396
015	14:36:16	51.77	31397
015	16:18:16	26.27	31398
015	18:00:15	.78	31399
015	19:42:15	-24.72	31400
015	21:24:14	-50.21	31401
015	23:06:14	-75.71	31402

015	00:42:39	-81.53	22473
015	02:23:51	-106.83	22474
015	04:05:04	-132.14	22475
015	05:46:16	-157.44	22476
015	07:27:28	177.26	22477
015	09:08:40	151.96	22478
015	10:49:52	126.66	22479
015	12:31:04	101.36	22480
015	14:12:16	76.06	22481
015	15:53:29	50.75	22482
015	17:34:41	25.45	22483
015	19:15:53	.15	22484
015	20:57:05	-25.15	22485
015	22:38:17	-50.45	22486

015	00:29:19	-152.67	11885
015	02:11:23	-178.19	11886
015	03:53:27	156.30	11887
015	05:35:31	130.78	11888
015	07:17:35	105.26	11889
015	08:59:38	79.76	11890
015	10:41:42	54.24	11891
015	12:23:46	28.72	11892
015	14:05:50	3.20	11893
015	15:47:54	-22.31	11894
015	17:29:57	-47.82	11895
015	19:12:01	-73.33	11896
015	20:54:05	-98.85	11897
015	22:36:09	-124.37	11898

016	00:48:13	-101.20	31403
016	02:30:13	-126.70	31404
016	04:12:12	-152.19	31405
016	05:54:12	-177.69	31406
016	07:36:11	156.82	31407
016	09:18:11	131.32	31408
016	11:00:10	105.83	31409
016	12:42:10	80.33	31410
016	14:24:09	54.84	31411
016	16:06:09	29.34	31412
016	17:48:09	3.83	31413
016	19:30:08	-21.65	31414
016	21:12:08	-47.16	31415
016	22:54:07	-72.64	31416

016	00:19:29	-75.74	22487
016	02:00:41	-101.04	22488
016	03:41:54	-126.36	22489
016	05:23:06	-151.66	22490
016	07:04:18	-176.96	22491
016	08:45:30	157.75	22492
016	10:26:42	132.45	22493
016	12:07:54	107.15	22494
016	13:49:07	81.83	22495
016	15:30:19	56.54	22496
016	17:11:31	31.24	22497
016	18:52:43	5.94	22498
016	20:33:55	-19.36	22499
016	22:15:07	-44.66	22500
016	23:56:19	-69.96	22501

016	00:18:12	-149.87	11899
016	02:00:16	-175.39	11900
016	03:42:20	159.09	11901
016	05:24:24	133.57	11902
016	07:06:28	108.06	11903
016	08:48:31	82.55	11904
016	10:30:35	57.03	11905
016	12:12:39	31.52	11906
016	13:54:43	6.00	11907
016	15:36:47	-19.52	11908
016	17:18:50	-45.02	11909
016	19:00:54	-70.54	11910
016	20:42:58	-96.06	11911
016	22:25:02	-121.57	11912

SATELLITE C4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

017 00:52:03	-1.65	7707
017 02:36:56	-28.00	7708
017 04:21:50	-54.35	7709
017 06:06:43	-80.70	7710
017 07:51:37	-107.05	7711
017 09:36:31	-133.40	7712
017 11:21:24	-159.75	7713
017 13:06:18	173.91	7714
017 14:51:11	147.56	7715
017 16:36:05	121.21	7716
017 18:20:58	94.86	7717
017 20:05:52	68.51	7718
017 21:50:45	42.16	7719
017 23:35:39	15.81	7720

SATELLITE C5
Ascending Node Predictions

Predicting for 185 days

TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

017 00:11:09	143.59	4436
017 01:56:04	117.23	4437
017 03:40:59	90.88	4438
017 05:25:55	64.52	4439
017 07:10:50	38.17	4440
017 08:55:45	11.81	4441
017 10:40:40	-14.55	4442
017 12:25:36	-40.90	4443
017 14:10:31	-67.26	4444
017 15:55:26	-93.62	4445
017 17:40:22	-119.97	4446
017 19:25:17	-146.33	4447
017 21:10:12	-172.68	4448
017 22:55:08	160.96	4449

018 01:20:32	-10.54	7721
018 03:05:26	-36.88	7722
018 04:50:20	-63.23	7723
018 06:35:13	-89.58	7724
018 08:20:07	-115.93	7725
018 10:05:00	-142.28	7726
018 11:49:54	-168.63	7727
018 13:34:47	165.02	7728
018 15:19:41	138.68	7729
018 17:04:34	112.33	7730
018 18:49:28	85.98	7731
018 20:34:22	59.63	7732
018 22:19:15	33.28	7733

018 00:40:03	134.60	4450
018 02:24:58	108.25	4451
018 04:09:54	81.89	4452
018 05:54:49	55.54	4453
018 07:39:44	29.18	4454
018 09:24:40	2.83	4455
018 11:09:35	-23.53	4456
018 12:54:30	-49.89	4457
018 14:39:26	-76.24	4458
018 16:24:21	-102.60	4459
018 18:09:16	-128.96	4460
018 19:54:11	-155.31	4461
018 21:39:07	178.33	4462
018 23:24:02	151.98	4463

019 00:04:09	6.93	7734
019 01:49:02	-19.42	7735
019 03:33:56	-45.76	7736
019 05:18:49	-72.11	7737
019 07:03:43	-98.46	7738
019 08:48:36	-124.81	7739
019 10:33:30	-151.16	7740
019 12:18:23	-177.51	7741
019 14:03:17	156.14	7742
019 15:48:11	129.80	7743
019 17:33:04	103.45	7744
019 19:17:58	77.10	7745
019 21:02:51	50.75	7746
019 22:47:45	24.40	7747

019 01:08:57	125.62	4464
019 02:53:53	99.27	4465
019 04:38:48	72.91	4466
019 06:23:43	46.55	4467
019 08:08:39	20.20	4468
019 09:53:34	-6.16	4469
019 11:38:29	-32.52	4470
019 13:23:25	-58.87	4471
019 15:08:20	-85.23	4472
019 16:53:15	-111.58	4473
019 18:38:11	-137.94	4474
019 20:23:06	-164.29	4475
019 22:08:01	169.35	4476
019 23:52:57	142.99	4477

020 00:32:38	-1.95	7748
020 02:17:32	-28.30	7749
020 04:02:25	-54.65	7750
020 05:47:19	-80.99	7751
020 07:32:13	-107.34	7752
020 09:17:06	-133.69	7753
020 11:02:00	-160.04	7754
020 12:46:53	173.61	7755
020 14:31:47	147.26	7756
020 16:16:40	120.91	7757
020 18:01:34	94.57	7758
020 19:46:27	68.22	7759
020 21:31:21	41.87	7760
020 23:16:14	15.52	7761

020 01:37:52	116.64	4478
020 03:22:47	90.28	4479
020 05:07:42	63.92	4480
020 06:52:38	37.57	4481
020 08:37:33	11.21	4482
020 10:22:28	-15.14	4483
020 12:07:24	-41.50	4484
020 13:52:19	-67.86	4485
020 15:37:14	-94.21	4486
020 17:22:10	-120.57	4487
020 19:07:05	-146.92	4488
020 20:52:00	-173.28	4489
020 22:36:56	160.37	4490

SATELLITE S2

Ascending Node Predictions
Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

017 00:36:07	-98.15	31417
017 02:18:06	-123.63	31418
017 04:00:06	-149.14	31419
017 05:42:05	-174.62	31420
017 07:24:05	159.87	31421
017 09:06:04	134.39	31422
017 10:48:04	108.88	31423
017 12:30:03	83.40	31424
017 14:12:03	57.89	31425
017 15:54:02	32.41	31426
017 17:36:02	6.90	31427
017 19:18:01	-18.58	31428
017 21:00:01	-44.09	31429
017 22:42:00	-69.58	31430

SATELLITE S3

Ascending Node Predictions
Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

017 01:37:32	-95.27	22502
017 03:18:44	-120.57	22503
017 04:59:56	-145.87	22504
017 06:41:08	-171.17	22505
017 08:22:20	163.53	22506
017 10:03:32	138.23	22507
017 11:44:44	112.93	22508
017 13:25:57	87.62	22509
017 15:07:09	62.32	22510
017 16:48:21	37.02	22511
017 18:29:33	11.72	22512
017 20:10:45	-13.58	22513
017 21:51:57	-38.88	22514
017 23:33:09	-64.18	22515

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

017 00:07:06	-147.09	11913
017 01:49:09	-172.60	11914
017 03:31:13	161.89	11915
017 05:13:17	136.37	11916
017 06:55:21	110.85	11917
017 08:37:25	85.33	11918
017 10:19:28	59.83	11919
017 12:01:32	34.31	11920
017 13:43:36	8.80	11921
017 15:25:40	-16.72	11922
017 17:07:43	-42.23	11923
017 18:49:47	-67.74	11924
017 20:31:51	-93.26	11925
017 22:13:55	-118.78	11926
017 23:55:59	-144.30	11927

018 00:24:00	-95.08	31431
018 02:05:59	-120.57	31432
018 03:47:59	-146.07	31433
018 05:29:58	-171.56	31434
018 07:11:58	162.94	31435
018 08:53:57	137.45	31436
018 10:35:57	111.95	31437
018 12:17:56	86.46	31438
018 13:59:56	60.96	31439
018 15:41:55	35.47	31440
018 17:23:55	9.97	31441
018 19:05:54	-15.52	31442
018 20:47:54	-41.02	31443
018 22:29:54	-66.52	31444

018 01:14:22	-89.49	22516
018 02:55:34	-114.79	22517
018 04:36:46	-140.09	22518
018 06:17:58	-165.39	22519
018 07:59:10	169.31	22520
018 09:40:22	144.01	22521
018 11:21:35	118.70	22522
018 13:02:47	93.40	22523
018 14:43:59	68.10	22524
018 16:25:11	42.80	22525
018 18:06:23	17.50	22526
018 19:47:35	-7.80	22527
018 21:28:47	-33.09	22528
018 23:10:00	-58.41	22529

018 01:38:02	-169.80	11928
018 03:20:06	164.68	11929
018 05:02:10	139.17	11930
018 06:44:14	113.65	11931
018 08:26:18	88.13	11932
018 10:08:21	62.63	11933
018 11:50:25	37.11	11934
018 13:32:29	11.59	11935
018 15:14:33	-13.93	11936
018 16:56:37	-39.44	11937
018 18:38:40	-64.95	11938
018 20:20:44	-90.47	11939
018 22:02:48	-115.98	11940
018 23:44:52	-141.50	11941

019 00:11:53	-92.01	31445
019 01:53:53	-117.51	31446
019 03:35:52	-143.00	31447
019 05:17:52	-168.50	31448
019 06:59:51	166.01	31449
019 08:41:51	140.51	31450
019 10:23:50	115.02	31451
019 12:05:50	89.52	31452
019 13:47:49	64.03	31453
019 15:29:49	38.53	31454
019 17:11:48	13.04	31455
019 18:53:48	-12.46	31456
019 20:35:47	-37.95	31457
019 22:17:47	-63.45	31458
019 23:59:46	-88.94	31459

019 00:51:12	-83.71	22530
019 02:32:24	-109.01	22531
019 04:13:36	-134.30	22532
019 05:54:48	-159.60	22533
019 07:36:00	175.10	22534
019 09:17:12	149.80	22535
019 10:58:25	124.49	22536
019 12:39:37	99.19	22537
019 14:20:49	73.89	22538
019 16:02:01	48.59	22539
019 17:43:13	23.29	22540
019 19:24:25	-2.01	22541
019 21:05:38	-27.32	22542
019 22:46:50	-52.62	22543

019 01:26:56	-167.02	11942
019 03:08:59	167.48	11943
019 04:51:03	141.96	11944
019 06:33:07	116.44	11945
019 08:15:11	90.93	11946
019 09:57:14	65.42	11947
019 11:39:18	39.90	11948
019 13:21:22	14.39	11949
019 15:03:26	-11.13	11950
019 16:45:30	-36.65	11951
019 18:27:33	-62.15	11952
019 20:09:37	-87.67	11953
019 21:51:41	-113.19	11954
019 23:33:45	-138.70	11955

020 01:41:46	-114.44	31460
020 03:23:45	-139.93	31461
020 05:05:45	-165.43	31462
020 06:47:44	169.08	31463
020 08:29:44	143.58	31464
020 10:11:43	118.09	31465
020 11:53:43	92.59	31466
020 13:35:42	67.10	31467
020 15:17:42	41.60	31468
020 16:59:41	16.11	31469
020 18:41:41	-9.39	31470
020 20:23:40	-34.88	31471
020 22:05:40	-60.38	31472
020 23:47:39	-85.87	31473

020 00:28:02	-77.92	22544
020 02:09:14	-103.22	22545
020 03:50:26	-128.52	22546
020 05:31:38	-153.82	22547
020 07:12:50	-179.12	22548
020 08:54:03	155.57	22549
020 10:35:15	130.27	22550
020 12:16:27	104.97	22551
020 13:57:39	79.67	22552
020 15:38:51	54.37	22553
020 17:20:03	29.07	22554
020 19:01:15	3.77	22555
020 20:42:28	-21.54	22556
020 22:23:40	-46.84	22557

020 01:15:49	-164.22	11956
020 02:57:52	170.27	11957
020 04:39:56	144.76	11958
020 06:22:00	119.24	11959
020 08:04:04	93.72	11960
020 09:46:08	68.20	11961
020 11:28:11	42.70	11962
020 13:10:15	17.18	11963
020 14:52:19	-8.34	11964
020 16:34:23	-33.85	11965
020 18:16:27	-59.37	11966
020 19:58:30	-84.87	11967
020 21:40:34	-110.39	11968
020 23:22:38	-135.91	11969

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

021 01:01:08	-10.83	7762
021 02:46:02	-37.18	7763
021 04:30:55	-63.53	7764
021 06:15:49	-89.87	7765
021 08:00:42	-116.22	7766
021 09:45:36	-142.57	7767
021 11:30:29	-168.92	7768
021 13:15:23	164.73	7769
021 15:00:16	138.38	7770
021 16:45:10	112.03	7771
021 18:30:03	85.68	7772
021 20:14:57	59.34	7773
021 21:59:51	32.99	7774
021 23:44:44	6.64	7775

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

021 00:21:51	134.01	4491
021 02:06:46	107.65	4492
021 03:51:42	81.30	4493
021 05:36:37	54.94	4494
021 07:21:32	28.58	4495
021 09:06:27	2.23	4496
021 10:51:23	-24.13	4497
021 12:36:18	-50.48	4498
021 14:21:13	-76.84	4499
021 16:06:09	-103.19	4500
021 17:51:04	-129.55	4501
021 19:35:59	-155.91	4502
021 21:20:55	177.74	4503
021 23:05:50	151.38	4504

022 01:29:38	-19.71	7776
022 03:14:31	-46.06	7777
022 04:59:25	-72.41	7778
022 06:44:18	-98.76	7779
022 08:29:12	-125.10	7780
022 10:14:05	-151.45	7781
022 11:58:59	-177.80	7782
022 13:43:53	155.85	7783
022 15:28:46	129.50	7784
022 17:13:40	103.15	7785
022 18:58:33	76.80	7786
022 20:43:27	50.46	7787
022 22:28:20	24.11	7788

022 00:50:45	125.02	4505
022 02:35:41	98.67	4506
022 04:20:36	72.31	4507
022 06:05:31	45.96	4508
022 07:50:27	19.60	4509
022 09:35:22	-6.75	4510
022 11:20:17	-33.11	4511
022 13:05:12	-59.47	4512
022 14:50:08	-85.82	4513
022 16:35:03	-112.18	4514
022 18:19:58	-138.54	4515
022 20:04:54	-164.89	4516
022 21:49:49	168.75	4517
022 23:34:44	142.40	4518

023 00:13:14	-2.24	7789
023 01:58:07	-28.59	7790
023 03:43:01	-54.94	7791
023 05:27:54	-81.29	7792
023 07:12:48	-107.64	7793
023 08:57:42	-133.98	7794
023 10:42:35	-160.33	7795
023 12:27:29	173.32	7796
023 14:12:22	146.97	7797
023 15:57:16	120.62	7798
023 17:42:09	94.27	7799
023 19:27:03	67.92	7800
023 21:11:56	41.57	7801
023 22:56:50	15.23	7802

023 01:19:40	116.04	4519
023 03:04:35	89.69	4520
023 04:49:30	63.33	4521
023 06:34:26	36.97	4522
023 08:19:21	10.62	4523
023 10:04:16	-15.74	4524
023 11:49:11	-42.10	4525
023 13:34:07	-68.45	4526
023 15:19:02	-94.81	4527
023 17:03:57	-121.16	4528
023 18:48:53	-147.52	4529
023 20:33:48	-173.87	4530
023 22:18:43	159.77	4531

024 00:41:43	-11.12	7803
024 02:26:37	-37.47	7804
024 04:11:31	-63.82	7805
024 05:56:24	-90.17	7806
024 07:41:18	-116.52	7807
024 09:26:11	-142.87	7808
024 11:11:05	-169.21	7809
024 12:55:58	164.44	7810
024 14:40:52	138.09	7811
024 16:25:45	111.74	7812
024 18:10:39	85.39	7813
024 19:55:32	59.04	7814
024 21:40:26	32.69	7815
024 23:25:20	6.35	7816

024 00:03:39	133.42	4532
024 01:48:34	107.06	4533
024 03:33:29	80.70	4534
024 05:18:25	54.35	4535
024 07:03:20	27.99	4536
024 08:48:15	1.63	4537
024 10:33:10	-24.72	4538
024 12:18:06	-51.08	4539
024 14:03:01	-77.43	4540
024 15:47:56	-103.79	4541
024 17:32:52	-130.14	4542
024 19:17:47	-156.50	4543
024 21:02:42	177.14	4544
024 22:47:38	150.79	4545

West longitude is negative (-)

SATELLITE S2

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

021	01:29:39	-111.37	31474
021	03:11:39	-136.88	31475
021	04:53:38	-162.36	31476
021	06:35:38	172.13	31477
021	08:17:37	146.65	31478
021	09:59:37	121.14	31479
021	11:41:36	95.66	31480
021	13:23:36	70.15	31481
021	15:05:35	44.67	31482
021	16:47:35	19.16	31483
021	18:29:34	-6.32	31484
021	20:11:34	-31.83	31485
021	21:53:33	-57.31	31486
021	23:35:33	-82.82	31487

SATELLITE S3

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

021	00:04:52	-72.14	22558
021	01:46:04	-97.44	22559
021	03:27:16	-122.74	22560
021	05:08:28	-148.04	22561
021	06:49:40	-173.34	22562
021	08:30:53	161.35	22563
021	10:12:05	136.05	22564
021	11:53:17	110.75	22565
021	13:34:29	85.45	22566
021	15:15:41	60.15	22567
021	16:56:53	34.86	22568
021	18:38:06	9.54	22569
021	20:19:18	-15.76	22570
021	22:00:30	-41.06	22571
021	23:41:42	-66.35	22572

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

021	01:04:42	-161.43	11970
021	02:46:45	173.07	11971
021	04:28:49	147.55	11972
021	06:10:53	122.03	11973
021	07:52:57	96.52	11974
021	09:35:01	71.00	11975
021	11:17:04	45.50	11976
021	12:59:08	19.98	11977
021	14:41:12	-5.54	11978
021	16:23:16	-31.06	11979
021	18:05:20	-56.57	11980
021	19:47:23	-82.08	11981
021	21:29:27	-107.60	11982
021	23:11:31	-133.11	11983

022	01:17:32	-108.31	31488
022	02:59:32	-133.81	31489
022	04:41:31	-159.30	31490
022	06:23:31	175.20	31491
022	08:05:30	149.71	31492
022	09:47:30	124.21	31493
022	11:29:29	98.72	31494
022	13:11:29	73.22	31495
022	14:53:28	47.73	31496
022	16:35:28	22.23	31497
022	18:17:27	-3.26	31498
022	19:59:27	-28.76	31499
022	21:41:26	-54.25	31500
022	23:23:26	-79.75	31501

022	01:22:54	-91.65	22573
022	03:04:06	-116.95	22574
022	04:45:18	-142.25	22575
022	06:26:31	-167.57	22576
022	08:07:43	167.14	22577
022	09:48:55	141.84	22578
022	11:30:07	116.54	22579
022	13:11:19	91.24	22580
022	14:52:31	65.94	22581
022	16:33:43	40.64	22582
022	18:14:56	15.33	22583
022	19:56:08	-9.97	22584
022	21:37:20	-35.27	22585
022	23:18:32	-60.57	22586

022	00:53:35	-158.63	11984
022	02:35:39	175.85	11985
022	04:17:42	150.35	11986
022	05:59:46	124.83	11987
022	07:41:50	99.31	11988
022	09:23:54	73.79	11989
022	11:05:57	48.29	11990
022	12:48:01	22.77	11991
022	14:30:05	-2.74	11992
022	16:12:09	-28.26	11993
022	17:54:13	-53.78	11994
022	19:36:16	-79.28	11995
022	21:18:20	-104.80	11996
022	23:00:24	-130.32	11997

023	01:05:25	-105.24	31502
023	02:47:25	-130.74	31503
023	04:29:24	-156.23	31504
023	06:11:24	178.27	31505
023	07:53:23	152.78	31506
023	09:35:23	127.28	31507
023	11:17:22	101.79	31508
023	12:59:22	76.29	31509
023	14:41:22	50.79	31510
023	16:23:21	25.30	31511
023	18:05:21	-20	31512
023	19:47:20	-25.69	31513
023	21:29:20	-51.19	31514
023	23:11:19	-76.68	31515

023	00:59:44	-85.87	22587
023	02:40:56	-111.17	22588
023	04:22:09	-136.48	22589
023	06:03:21	-161.78	22590
023	07:44:33	172.92	22591
023	09:25:45	147.62	22592
023	11:06:57	122.32	22593
023	12:48:09	97.02	22594
023	14:29:21	71.72	22595
023	16:10:34	46.41	22596
023	17:51:46	21.11	22597
023	19:32:58	-4.19	22598
023	21:14:10	-29.49	22599
023	22:55:22	-54.79	22600

023	00:42:28	-155.84	11998
023	02:24:32	178.65	11999
023	04:06:35	153.14	12000
023	05:48:39	127.63	12001
023	07:30:43	102.11	12002
023	09:12:47	76.59	12003
023	10:54:51	51.07	12004
023	12:36:54	25.57	12005
023	14:18:58	.05	12006
023	16:01:02	-25.47	12007
023	17:43:06	-50.98	12008
023	19:25:10	-76.50	12009
023	21:07:13	-102.01	12010
023	22:49:17	-127.52	12011

024	00:53:19	-102.18	31516
024	02:35:18	-127.67	31517
024	04:17:18	-153.17	31518
024	05:59:17	-178.66	31519
024	07:41:17	155.84	31520
024	09:23:16	130.35	31521
024	11:05:16	104.85	31522
024	12:47:15	79.36	31523
024	14:29:15	53.86	31524
024	16:11:14	28.37	31525
024	17:53:14	2.87	31526
024	19:35:13	-22.62	31527
024	21:17:13	-48.12	31528
024	22:59:12	-73.61	31529

024	00:36:34	-80.09	22601
024	02:17:46	-105.39	22602
024	03:58:59	-130.70	22603
024	05:40:11	-156.00	22604
024	07:21:23	178.70	22605
024	09:02:35	153.40	22606
024	10:43:47	128.10	22607
024	12:24:59	102.81	22608
024	14:06:11	77.51	22609
024	15:47:24	52.19	22610
024	17:28:36	26.89	22611
024	19:09:48	1.59	22612
024	20:51:00	-23.70	22613
024	22:32:12	-49.00	22614

024	00:31:21	-153.04	12012
024	02:13:25	-178.56	12013
024	03:55:28	155.94	12014
024	05:37:32	130.42	12015
024	07:19:36	104.90	12016
024	09:01:40	79.39	12017
024	10:43:44	53.87	12018
024	12:25:47	28.36	12019
024	14:07:51	2.85	12020
024	15:49:55	-22.67	12021
024	17:31:59	-48.19	12022
024	19:14:03	-73.71	12023
024	20:56:06	-99.21	12024
024	22:38:10	-124.73	12025

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

025 01:10:13	-20.00	7817
025 02:55:07	-46.35	7818
025 04:40:00	-72.70	7819
025 06:24:54	-99.05	7820
025 08:09:47	-125.40	7821
025 09:54:41	-151.75	7822
025 11:39:34	-178.10	7823
025 13:24:28	155.56	7824
025 15:09:21	129.21	7825
025 16:54:15	102.86	7826
025 18:39:09	76.51	7827
025 20:24:02	50.16	7828
025 22:08:56	23.81	7829
025 23:53:49	-2.54	7830

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

025 00:32:33	124.43	4546
025 02:17:28	98.07	4547
025 04:02:24	71.72	4548
025 05:47:19	45.36	4549
025 07:32:14	19.01	4550
025 09:17:09	-7.35	4551
025 11:02:05	-33.70	4552
025 12:47:00	-60.06	4553
025 14:31:55	-86.42	4554
025 16:16:51	-112.77	4555
025 18:01:46	-139.13	4556
025 19:46:41	-165.49	4557
025 21:31:37	168.16	4558
025 23:16:32	141.80	4559

026 01:38:43	-28.88	7831
026 03:23:36	-55.23	7832
026 05:08:30	-81.58	7833
026 06:53:23	-107.93	7834
026 08:38:17	-134.28	7835
026 10:23:10	-160.63	7836
026 12:08:04	173.02	7837
026 13:52:58	146.68	7838
026 15:37:51	120.33	7839
026 17:22:45	93.98	7840
026 19:07:38	67.63	7841
026 20:52:32	41.28	7842
026 22:37:25	14.93	7843

026 01:01:27	115.45	4560
026 02:46:23	89.09	4561
026 04:31:18	62.74	4562
026 06:16:13	36.38	4563
026 08:01:08	10.02	4564
026 09:46:04	-16.33	4565
026 11:30:59	-42.69	4566
026 13:15:54	-69.05	4567
026 15:00:50	-95.40	4568
026 16:45:45	-121.76	4569
026 18:30:40	-148.11	4570
026 20:15:36	-174.47	4571
026 22:00:31	159.18	4572
026 23:45:26	132.82	4573

027 00:22:19	-11.42	7844
027 02:07:12	-37.77	7845
027 03:52:06	-64.11	7846
027 05:36:59	-90.46	7847
027 07:21:53	-116.81	7848
027 09:06:47	-143.16	7849
027 10:51:40	-169.51	7850
027 12:36:34	164.14	7851
027 14:21:27	137.79	7852
027 16:06:21	111.45	7853
027 17:51:14	85.10	7854
027 19:36:08	58.75	7855
027 21:21:01	32.40	7856
027 23:05:55	6.05	7857

027 01:30:21	106.46	4574
027 03:15:17	80.11	4575
027 05:00:12	53.75	4576
027 06:45:07	27.40	4577
027 08:30:03	1.04	4578
027 10:14:58	-25.32	4579
027 11:59:53	-51.67	4580
027 13:44:49	-78.03	4581
027 15:29:44	-104.38	4582
027 17:14:39	-130.74	4583
027 18:59:35	-157.09	4584
027 20:44:30	176.55	4585
027 22:29:25	150.19	4586

028 00:50:48	-20.30	7858
028 02:35:42	-46.65	7859
028 04:20:36	-72.99	7860
028 06:05:29	-99.34	7861
028 07:50:23	-125.69	7862
028 09:35:16	-152.04	7863
028 11:20:10	-178.39	7864
028 13:05:03	155.26	7865
028 14:49:57	128.91	7866
028 16:34:50	102.56	7867
028 18:19:44	76.22	7868
028 20:04:37	49.87	7869
028 21:49:31	23.52	7870
028 23:34:24	-2.83	7871

028 00:14:20	123.84	4587
028 01:59:16	97.48	4588
028 03:44:11	71.12	4589
028 05:29:06	44.77	4590
028 07:14:02	18.41	4591
028 08:58:57	-7.94	4592
028 10:43:52	-34.30	4593
028 12:28:48	-60.65	4594
028 14:13:43	-87.01	4595
028 15:58:38	-113.37	4596
028 17:43:33	-139.72	4597
028 19:28:29	-166.08	4598
028 21:13:24	167.57	4599
028 22:58:19	141.21	4600

West longitude is negative (-)

SATELLITE S2

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

025 00:41:12	-99.11	31530
025 02:23:11	-124.60	31531
025 04:05:11	-150.10	31532
025 05:47:10	-175.59	31533
025 07:29:10	158.91	31534
025 09:11:09	133.42	31535
025 10:53:09	107.92	31536
025 12:35:08	82.43	31537
025 14:17:08	56.92	31538
025 15:59:07	31.44	31539
025 17:41:07	5.93	31540
025 19:23:06	-19.55	31541
025 21:05:06	-45.06	31542
025 22:47:05	-70.54	31543

SATELLITE S3

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

025 00:13:24	-74.30	22615
025 01:54:37	-99.62	22616
025 03:35:49	-124.91	22617
025 05:17:01	-150.21	22618
025 06:58:13	-175.51	22619
025 08:39:25	159.19	22620
025 10:20:37	133.89	22621
025 12:01:49	108.59	22622
025 13:43:02	83.28	22623
025 15:24:14	57.98	22624
025 17:05:26	32.68	22625
025 18:46:38	7.38	22626
025 20:27:50	-17.92	22627
025 22:09:02	-43.22	22628
025 23:50:14	-68.52	22629

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

025 00:20:14	-150.24	12026
025 02:02:18	-175.76	12027
025 03:44:22	158.72	12028
025 05:26:25	133.22	12029
025 07:08:29	107.70	12030
025 08:50:33	82.18	12031
025 10:32:37	56.66	12032
025 12:14:40	31.16	12033
025 13:56:44	5.64	12034
025 15:38:48	-19.88	12035
025 17:20:52	-45.39	12036
025 19:02:56	-70.91	12037
025 20:44:59	-96.41	12038
025 22:27:03	-121.93	12039

026 00:29:05	-96.05	31544
026 02:11:04	-121.53	31545
026 03:53:04	-147.04	31546
026 05:35:04	-172.54	31547
026 07:17:03	161.97	31548
026 08:59:03	136.47	31549
026 10:41:02	110.98	31550
026 12:23:02	85.48	31551
026 14:05:01	59.99	31552
026 15:47:01	34.49	31553
026 17:29:00	9.00	31554
026 19:11:00	-16.50	31555
026 20:52:59	-41.99	31556
026 22:34:59	-67.49	31557

026 01:31:27	-93.83	22630
026 03:12:39	-119.13	22631
026 04:53:51	-144.43	22632
026 06:35:03	-169.73	22633
026 08:16:15	164.97	22634
026 09:57:27	139.67	22635
026 11:38:40	114.36	22636
026 13:19:52	89.06	22637
026 15:01:04	63.76	22638
026 16:42:16	38.46	22639
026 18:23:28	13.16	22640
026 20:04:40	-12.14	22641
026 21:45:52	-37.44	22642
026 23:27:05	-62.75	22643

026 00:09:07	-147.45	12040
026 01:51:11	-172.97	12041
026 03:33:15	161.52	12042
026 05:15:18	136.01	12043
026 06:57:22	110.49	12044
026 08:39:26	84.98	12045
026 10:21:30	59.46	12046
026 12:03:34	33.94	12047
026 13:45:37	8.44	12048
026 15:27:41	-17.08	12049
026 17:09:45	-42.60	12050
026 18:51:49	-68.12	12051
026 20:33:52	-93.62	12052
026 22:15:56	-119.14	12053
026 23:58:00	-144.65	12054

027 00:16:58	-92.98	31558
027 01:58:58	-118.48	31559
027 03:40:57	-143.97	31560
027 05:22:57	-169.47	31561
027 07:04:56	165.04	31562
027 08:46:56	139.54	31563
027 10:28:55	114.05	31564
027 12:10:55	88.55	31565
027 13:52:54	63.06	31566
027 15:34:54	37.56	31567
027 17:16:53	12.07	31568
027 18:58:53	-13.43	31569
027 20:40:52	-38.92	31570
027 22:22:52	-64.42	31571

027 01:08:17	-88.05	22644
027 02:49:29	-113.35	22645
027 04:30:41	-138.65	22646
027 06:11:53	-163.95	22647
027 07:53:05	170.75	22648
027 09:34:17	145.46	22649
027 11:15:30	120.14	22650
027 12:56:42	94.84	22651
027 14:37:54	69.54	22652
027 16:19:06	44.25	22653
027 18:00:18	18.95	22654
027 19:41:30	-6.35	22655
027 21:22:42	-31.65	22656
027 23:03:55	-56.96	22657

027 01:40:04	-170.17	12055
027 03:22:08	164.31	12056
027 05:04:11	138.81	12057
027 06:46:15	113.29	12058
027 08:28:19	87.77	12059
027 10:10:23	62.25	12060
027 11:52:27	36.74	12061
027 13:34:30	11.23	12062
027 15:16:34	-14.28	12063
027 16:58:38	-39.80	12064
027 18:40:42	-65.32	12065
027 20:22:46	-90.84	12066
027 22:04:49	-116.34	12067
027 23:46:53	-141.86	12068

028 00:04:51	-89.91	31572
028 01:46:51	-115.41	31573
028 03:28:50	-140.90	31574
028 05:10:50	-166.40	31575
028 06:52:49	168.11	31576
028 08:34:49	142.61	31577
028 10:16:48	117.12	31578
028 11:58:48	91.62	31579
028 13:40:47	66.13	31580
028 15:22:47	40.63	31581
028 17:04:46	15.14	31582
028 18:46:46	-10.36	31583
028 20:28:45	-35.85	31584
028 22:10:45	-61.35	31585
028 23:52:44	-86.84	31586

028 00:45:07	-82.26	22658
028 02:26:19	-107.56	22659
028 04:07:31	-132.86	22660
028 05:48:43	-158.16	22661
028 07:29:55	176.54	22662
028 09:11:08	151.23	22663
028 10:52:20	125.93	22664
028 12:33:32	100.63	22665
028 14:14:44	75.33	22666
028 15:55:56	50.03	22667
028 17:37:08	24.73	22668
028 19:18:20	-5.57	22669
028 20:59:33	-25.88	22670
028 22:40:45	-51.18	22671

028 01:28:57	-167.38	12069
028 03:11:01	167.11	12070
028 04:53:04	141.60	12071
028 06:35:08	116.08	12072
028 08:17:12	90.57	12073
028 09:59:16	65.05	12074
028 11:41:20	39.53	12075
028 13:23:23	14.03	12076
028 15:05:27	-11.49	12077
028 16:47:31	-37.01	12078
028 18:29:35	-62.52	12079
028 20:11:39	-88.04	12080
028 21:53:42	-113.55	12081
028 23:35:46	-139.06	12082

SATELLITE C4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

029 01:19:18	-29.18	7872
029 03:04:12	-55.53	7873
029 04:49:05	-81.88	7874
029 06:33:59	-108.22	7875
029 08:18:52	-134.57	7876
029 10:03:46	-160.92	7877
029 11:48:39	172.73	7878
029 13:33:33	146.38	7879
029 15:18:26	120.03	7880
029 17:03:20	93.69	7881
029 18:48:13	67.33	7882
029 20:33:07	40.99	7883
029 22:18:01	14.64	7884

SATELLITE C5
Ascending Node Predictions

Predicting for 185 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

029 00:43:15	114.85	4601
029 02:28:10	88.50	4602
029 04:13:05	62.14	4603
029 05:58:01	35.79	4604
029 07:42:56	9.43	4605
029 09:27:51	-16.93	4606
029 11:12:46	-43.28	4607
029 12:57:42	-69.64	4608
029 14:42:37	-95.99	4609
029 16:27:32	-122.35	4610
029 18:12:28	-148.70	4611
029 19:57:23	-175.06	4612
029 21:42:18	158.58	4613
029 23:27:14	132.23	4614

030 00:02:54	-11.71	7885
030 01:47:48	-38.06	7886
030 03:32:41	-64.41	7887
030 05:17:35	-90.75	7888
030 07:02:28	-117.10	7889
030 08:47:22	-143.45	7890
030 10:32:15	-169.80	7891
030 12:17:09	163.85	7892
030 14:02:02	137.50	7893
030 15:46:56	111.15	7894
030 17:31:49	84.80	7895
030 19:16:43	58.46	7896
030 21:01:37	32.11	7897
030 22:46:30	5.76	7898

030 01:12:09	105.87	4615
030 02:57:04	79.51	4616
030 04:41:59	53.16	4617
030 06:26:55	26.80	4618
030 08:11:50	.45	4619
030 09:56:45	-25.91	4620
030 11:41:41	-52.26	4621
030 13:26:36	-78.62	4622
030 15:11:31	-104.98	4623
030 16:56:27	-131.33	4624
030 18:41:22	-157.69	4625
030 20:26:17	175.96	4626
030 22:11:12	149.60	4627
030 23:56:08	123.24	4628

031 00:31:24	-20.59	7899
031 02:16:17	-46.94	7900
031 04:01:11	-73.29	7901
031 05:46:04	-99.64	7902
031 07:30:58	-125.98	7903
031 09:15:51	-152.33	7904
031 11:00:45	-178.68	7905
031 12:45:33	154.97	7906
031 14:30:32	128.62	7907
031 16:15:25	102.27	7908
031 18:00:19	75.92	7909
031 19:45:13	49.58	7910
031 21:30:06	23.23	7911
031 23:15:00	-3.12	7912

031 01:41:03	96.89	4629
031 03:25:58	70.53	4630
031 05:10:54	44.18	4631
031 06:55:49	17.82	4632
031 08:40:44	-8.54	4633
031 10:25:39	-34.89	4634
031 12:10:35	-61.25	4635
031 13:55:30	-87.60	4636
031 15:40:25	-113.96	4637
031 17:25:21	-140.31	4638
031 19:10:16	-166.67	4639
031 20:55:11	166.97	4640
031 22:40:07	140.62	4641

032 00:59:53	-29.47	7913
032 02:44:47	-55.82	7914
032 04:29:40	-82.17	7915
032 06:14:34	-108.52	7916
032 07:59:27	-134.87	7917
032 09:44:21	-161.21	7918
032 11:29:14	172.44	7919
032 13:14:08	146.09	7920
032 14:59:01	119.74	7921
032 16:43:55	93.39	7922
032 18:28:49	67.04	7923
032 20:13:42	40.69	7924
032 21:58:36	14.35	7925
032 23:43:29	-12.00	7926

032 00:25:02	114.26	4642
032 02:09:57	87.90	4643
032 03:54:52	61.55	4644
032 05:39:48	35.19	4645
032 07:24:43	8.84	4646
032 09:09:38	-17.52	4647
032 10:54:34	-43.87	4648
032 12:39:29	-70.23	4649
032 14:24:24	-96.59	4650
032 16:09:20	-122.94	4651
032 17:54:15	-149.30	4652
032 19:39:10	-175.65	4653
032 21:24:05	157.99	4654
032 23:09:01	131.63	4655

West longitude is negative (-)

SATELLITE S2
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

029 01:34:44 -112.34 31587
 029 03:16:44 -137.85 31588
 029 04:58:43 -163.33 31589
 029 06:40:43 171.16 31590
 029 08:22:42 145.68 31591
 029 10:04:42 120.17 31592
 029 11:46:41 94.69 31593
 029 13:28:41 69.18 31594
 029 15:10:40 43.69 31595
 029 16:52:40 18.19 31596
 029 18:34:39 -7.30 31597
 029 20:16:39 -32.80 31598
 029 21:58:38 -58.29 31599
 029 23:40:38 -83.79 31600

SATELLITE S3
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

029 00:21:57 -76.48 22672
 029 02:03:09 -101.78 22673
 029 03:44:21 -127.08 22674
 029 05:25:33 -152.38 22675
 029 07:06:45 -177.68 22676
 029 08:47:58 157.01 22677
 029 10:29:10 131.71 22678
 029 12:10:22 106.41 22679
 029 13:51:34 81.11 22680
 029 15:32:46 55.81 22681
 029 17:13:58 30.51 22682
 029 18:55:11 5.20 22683
 029 20:36:23 -20.10 22684
 029 22:17:35 -45.40 22685
 029 23:58:47 -70.70 22686

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

029 01:17:50 -164.58 12083
 029 02:59:54 169.90 12084
 029 04:41:58 144.38 12085
 029 06:24:01 118.88 12086
 029 08:06:05 93.36 12087
 029 09:48:09 67.84 12088
 029 11:30:13 42.33 12089
 029 13:12:16 16.82 12090
 029 14:54:20 -8.69 12091
 029 16:36:24 -34.21 12092
 029 18:18:28 -59.73 12093
 029 20:00:32 -85.25 12094
 029 21:42:35 -110.75 12095
 029 23:24:39 -136.27 12096

030 01:22:37 -109.28 31601
 030 03:04:37 -134.78 31602
 030 04:46:36 -160.27 31603
 030 06:28:36 174.23 31604
 030 08:10:35 148.74 31605
 030 09:52:35 123.24 31606
 030 11:34:34 97.75 31607
 030 13:16:34 72.25 31608
 030 14:58:33 46.76 31609
 030 16:40:33 21.26 31610
 030 18:22:32 -4.23 31611
 030 20:04:32 -29.73 31612
 030 21:46:31 -55.22 31613
 030 23:28:31 -80.72 31614

030 01:39:59 -96.00 22687
 030 03:21:11 -121.30 22688
 030 05:02:23 -146.59 22689
 030 06:43:36 -171.91 22690
 030 08:24:48 162.79 22691
 030 10:06:00 137.49 22692
 030 11:47:12 112.20 22693
 030 13:28:24 86.90 22694
 030 15:09:36 61.60 22695
 030 16:50:48 36.30 22696
 030 18:32:01 10.98 22697
 030 20:13:13 -14.31 22698
 030 21:54:25 -39.61 22699
 030 23:35:37 -64.91 22700

030 01:06:43 -161.79 12097
 030 02:48:47 172.70 12098
 030 04:30:51 147.18 12099
 030 06:12:54 121.68 12100
 030 07:54:58 96.16 12101
 030 09:37:02 70.64 12102
 030 11:19:06 45.12 12103
 030 13:01:10 19.61 12104
 030 14:43:13 -5.90 12105
 030 16:25:17 -31.42 12106
 030 18:07:21 -56.93 12107
 030 19:49:25 -82.45 12108
 030 21:31:28 -107.96 12109
 030 23:13:32 -133.47 12110

031 01:10:30 -106.21 31615
 031 02:52:30 -131.71 31616
 031 04:34:29 -157.20 31617
 031 06:16:29 177.30 31618
 031 07:58:28 151.81 31619
 031 09:40:28 126.31 31620
 031 11:22:27 100.82 31621
 031 13:04:27 75.32 31622
 031 14:46:26 49.83 31623
 031 16:28:26 24.33 31624
 031 18:10:25 -1.16 31625
 031 19:52:25 -26.66 31626
 031 21:34:24 -52.15 31627
 031 23:16:24 -77.65 31628

031 01:16:49 -90.21 22701
 031 02:58:01 -115.51 22702
 031 04:39:14 -140.82 22703
 031 06:20:26 -166.12 22704
 031 08:01:38 168.58 22705
 031 09:42:50 143.28 22706
 031 11:24:02 117.98 22707
 031 13:05:14 92.68 22708
 031 14:46:26 67.38 22709
 031 16:27:39 42.07 22710
 031 18:08:51 16.77 22711
 031 19:50:03 -8.53 22712
 031 21:31:15 -33.83 22713
 031 23:12:27 -59.13 22714

031 00:55:36 -158.99 12111
 031 02:37:40 175.49 12112
 031 04:19:44 149.97 12113
 031 06:01:47 124.47 12114
 031 07:43:51 98.95 12115
 031 09:25:55 73.44 12116
 031 11:07:59 47.92 12117
 031 12:50:03 22.40 12118
 031 14:32:06 -3.10 12119
 031 16:14:10 -28.62 12120
 031 17:56:14 -54.14 12121
 031 19:38:18 -79.66 12122
 031 21:20:22 -105.17 12123
 031 23:02:25 -130.68 12124

032 00:58:23 -103.14 31629
 032 02:40:23 -128.64 31630
 032 04:22:22 -154.13 31631
 032 06:04:22 -179.63 31632
 032 07:46:21 154.88 31633
 032 09:28:21 129.38 31634
 032 11:10:21 103.87 31635
 032 12:52:20 78.39 31636
 032 14:34:20 52.88 31637
 032 16:16:19 27.40 31638
 032 17:58:19 1.89 31639
 032 19:40:18 -23.59 31640
 032 21:22:18 -49.10 31641
 032 23:04:17 -74.58 31642

032 00:53:39 -84.43 22715
 032 02:34:51 -109.73 22716
 032 04:16:04 -135.04 22717
 032 05:57:16 -160.34 22718
 032 07:38:28 174.36 22719
 032 09:19:40 149.06 22720
 032 11:00:52 123.76 22721
 032 12:42:04 98.46 22722
 032 14:23:17 73.15 22723
 032 16:04:29 47.85 22724
 032 17:45:41 22.55 22725
 032 19:26:53 -2.75 22726
 032 21:08:05 -28.05 22727
 032 22:49:17 -53.35 22728

032 00:44:29 -156.20 12125
 032 02:26:33 178.29 12126
 032 04:08:37 152.77 12127
 032 05:50:40 127.27 12128
 032 07:32:44 101.75 12129
 032 09:14:48 76.23 12130
 032 10:56:52 50.71 12131
 032 12:38:56 25.20 12132
 032 14:20:59 -.31 12133
 032 16:03:03 -25.83 12134
 032 17:45:07 -51.34 12135
 032 19:27:11 -76.86 12136
 032 21:09:15 -102.38 12137
 032 22:51:18 -127.88 12138

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

033 01:28:23	-38.35	7927
033 03:13:16	-64.70	7928
033 04:58:10	-91.05	7929
033 06:43:03	-117.40	7930
033 08:27:57	-143.74	7931
033 10:12:50	-170.09	7932
033 11:57:44	163.56	7933
033 13:42:37	137.21	7934
033 15:27:31	110.86	7935
033 17:12:25	84.51	7936
033 18:57:18	58.16	7937
033 20:42:12	31.82	7938
033 22:27:05	5.47	7939

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

033 00:53:56	105.28	4656
033 02:38:51	78.92	4657
033 04:23:47	52.57	4658
033 06:08:42	26.21	4659
033 07:53:37	-1.15	4660
033 09:38:32	-26.50	4661
033 11:23:28	-52.86	4662
033 13:08:23	-79.21	4663
033 14:53:18	-105.57	4664
033 16:38:14	-131.92	4665
033 18:23:09	-158.28	4666
033 20:08:04	175.36	4667
033 21:52:59	149.01	4668
033 23:37:55	122.65	4669

034 00:11:59	-20.88	7940
034 01:56:52	-47.23	7941
034 03:41:46	-73.58	7942
034 05:26:39	-99.93	7943
034 07:11:33	-126.28	7944
034 08:56:26	-152.63	7945
034 10:41:20	-178.97	7946
034 12:26:13	154.68	7947
034 14:11:07	128.33	7948
034 15:56:00	101.98	7949
034 17:40:54	75.63	7950
034 19:25:48	49.28	7951
034 21:10:41	22.93	7952
034 22:55:35	-3.41	7953

034 01:22:50	96.30	4670
034 03:07:45	69.94	4671
034 04:52:41	43.58	4672
034 06:37:36	17.23	4673
034 08:22:31	-9.13	4674
034 10:07:27	-35.48	4675
034 11:52:22	-61.84	4676
034 13:37:17	-88.20	4677
034 15:22:12	-114.55	4678
034 17:07:08	-140.91	4679
034 18:52:03	-167.26	4680
034 20:36:58	166.38	4681
034 22:21:54	140.03	4682

035 00:40:28	-29.76	7954
035 02:25:22	-56.11	7955
035 04:10:15	-82.46	7956
035 05:55:09	-108.81	7957
035 07:40:02	-135.16	7958
035 09:24:56	-161.50	7959
035 11:09:49	172.15	7960
035 12:54:43	145.80	7961
035 14:39:36	119.45	7962
035 16:24:30	93.10	7963
035 18:09:24	66.75	7964
035 19:54:17	40.40	7965
035 21:39:11	14.06	7966
035 23:24:04	-12.29	7967

035 00:06:49	113.67	4683
035 01:51:44	87.31	4684
035 03:36:39	60.96	4685
035 05:21:35	34.60	4686
035 07:06:30	8.25	4687
035 08:51:25	-18.11	4688
035 10:36:21	-44.47	4689
035 12:21:16	-70.82	4690
035 14:06:11	-97.18	4691
035 15:51:06	-123.54	4692
035 17:36:02	-149.89	4693
035 19:20:57	-176.25	4694
035 21:05:52	157.90	4695
035 22:50:48	131.04	4696

036 01:08:58	-38.64	7968
036 02:53:51	-64.99	7969
036 04:38:45	-91.34	7970
036 06:23:38	-117.69	7971
036 08:08:32	-144.04	7972
036 09:53:25	-170.39	7973
036 11:38:19	163.27	7974
036 13:23:12	136.92	7975
036 15:08:06	110.57	7976
036 16:52:59	84.22	7977
036 18:37:53	57.87	7978
036 20:22:47	31.52	7979
036 22:07:40	5.17	7980
036 23:52:34	-21.17	7981

036 00:35:43	104.69	4697
036 02:20:38	78.33	4698
036 04:05:34	51.98	4699
036 05:50:29	25.62	4700
036 07:35:24	-7.74	4701
036 09:20:19	-27.09	4702
036 11:05:15	-53.45	4703
036 12:50:10	-79.80	4704
036 14:35:05	-106.16	4705
036 16:20:01	-132.52	4706
036 18:04:56	-158.87	4707
036 19:49:51	174.77	4708
036 21:34:46	148.41	4709
036 23:19:42	122.06	4710

SATELLITE S2
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

 033 00:46:17 -100.09 31643
 033 02:28:16 -125.58 31644
 033 04:10:16 -151.08 31645
 033 05:52:15 -176.57 31646
 033 07:34:15 157.93 31647
 033 09:16:14 132.44 31648
 033 10:58:14 106.94 31649
 033 12:40:13 81.45 31650
 033 14:22:13 55.95 31651
 033 16:04:12 30.46 31652
 033 17:46:12 4.96 31653
 033 19:28:11 -20.53 31654
 033 21:10:11 -46.03 31655
 033 22:52:10 -71.52 31656

SATELLITE S3
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

 033 00:30:29 -78.64 22729
 033 02:11:42 -103.96 22730
 033 03:52:54 -129.26 22731
 033 05:34:06 -154.56 22732
 033 07:15:18 -179.85 22733
 033 08:56:30 154.85 22734
 033 10:37:42 129.55 22735
 033 12:18:54 104.25 22736
 033 14:00:07 78.94 22737
 033 15:41:19 53.64 22738
 033 17:22:31 28.34 22739
 033 19:03:43 3.04 22740
 033 20:44:55 -22.26 22741
 033 22:26:07 -47.56 22742

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

 033 00:33:22 -153.40 12139
 033 02:15:26 -178.92 12140
 033 03:57:30 155.57 12141
 033 05:39:34 130.05 12142
 033 07:21:37 104.54 12143
 033 09:03:41 79.03 12144
 033 10:45:45 53.51 12145
 033 12:27:49 27.99 12146
 033 14:09:53 2.47 12147
 033 15:51:56 -23.03 12148
 033 17:34:00 -48.55 12149
 033 19:16:04 -74.07 12150
 033 20:58:08 -99.58 12151
 033 22:40:11 -125.09 12152

 034 00:34:10 -97.02 31657
 034 02:16:09 -122.51 31658
 034 03:58:09 -148.01 31659
 034 05:40:08 -173.50 31660
 034 07:22:08 161.00 31661
 034 09:04:07 135.51 31662
 034 10:46:07 110.01 31663
 034 12:28:06 84.52 31664
 034 14:10:06 59.02 31665
 034 15:52:05 33.53 31666
 034 17:34:05 8.03 31667
 034 19:16:04 -17.46 31668
 034 20:58:04 -42.96 31669
 034 22:40:03 -68.45 31670

 034 00:07:20 -72.87 22743
 034 01:48:32 -98.17 22744
 034 03:29:44 -123.47 22745
 034 05:10:56 -148.77 22746
 034 06:52:08 -174.07 22747
 034 08:33:20 160.63 22748
 034 10:14:32 135.33 22749
 034 11:55:45 110.02 22750
 034 13:36:57 84.72 22751
 034 15:18:09 59.42 22752
 034 16:59:21 34.12 22753
 034 18:40:33 8.82 22754
 034 20:21:45 -16.48 22755
 034 22:02:58 -41.79 22756
 034 23:44:10 -67.09 22757

 034 00:22:15 -150.60 12153
 034 02:04:19 -176.12 12154
 034 03:46:23 158.36 12155
 034 05:28:27 132.84 12156
 034 07:10:30 107.34 12157
 034 08:52:34 81.82 12158
 034 10:34:38 56.30 12159
 034 12:16:42 30.79 12160
 034 13:58:46 5.27 12161
 034 15:40:49 -20.24 12162
 034 17:22:53 -45.75 12163
 034 19:04:57 -71.27 12164
 034 20:47:01 -96.79 12165
 034 22:29:05 -122.30 12166

 035 00:22:03 -93.95 31671
 035 02:04:02 -119.44 31672
 035 03:46:02 -144.94 31673
 035 05:28:01 -170.43 31674
 035 07:10:01 164.07 31675
 035 08:52:00 138.58 31676
 035 10:34:00 113.08 31677
 035 12:15:59 87.59 31678
 035 13:57:59 62.09 31679
 035 15:39:58 36.60 31680
 035 17:21:58 11.10 31681
 035 19:03:57 -14.39 31682
 035 20:45:57 -39.89 31683
 035 22:27:56 -65.38 31684

 035 01:25:22 -92.39 22758
 035 03:06:34 -117.69 22759
 035 04:47:46 -142.99 22760
 035 06:28:58 -168.29 22761
 035 08:10:10 166.41 22762
 035 09:51:23 141.10 22763
 035 11:32:35 115.80 22764
 035 13:13:47 90.50 22765
 035 14:54:59 65.20 22766
 035 16:36:11 39.90 22767
 035 18:17:23 14.61 22768
 035 19:58:35 -10.69 22769
 035 21:39:48 -36.01 22770
 035 23:21:00 -61.31 22771

 035 00:11:08 -147.81 12167
 035 01:53:12 -173.33 12168
 035 03:35:16 161.16 12169
 035 05:17:20 135.64 12170
 035 06:59:23 110.13 12171
 035 08:41:27 84.62 12172
 035 10:23:31 59.10 12173
 035 12:05:35 33.58 12174
 035 13:47:39 8.06 12175
 035 15:29:42 -17.44 12176
 035 17:11:46 -42.96 12177
 035 18:53:50 -68.47 12178
 035 20:35:54 -93.99 12179
 035 22:17:58 -119.51 12180

 036 00:09:56 -90.88 31685
 036 01:51:55 -116.37 31686
 036 03:33:55 -141.87 31687
 036 05:15:54 -167.36 31688
 036 06:57:54 167.14 31689
 036 08:39:53 141.65 31690
 036 10:21:53 116.14 31691
 036 12:03:52 90.66 31692
 036 13:45:52 65.15 31693
 036 15:27:52 39.65 31694
 036 17:09:51 14.16 31695
 036 18:51:51 -11.34 31696
 036 20:33:50 -36.83 31697
 036 22:15:50 -62.33 31698
 036 23:57:49 -87.82 31699

 036 01:02:12 -86.60 22772
 036 02:43:24 -111.90 22773
 036 04:24:36 -137.20 22774
 036 06:05:43 -162.50 22775
 036 07:47:01 172.18 22776
 036 09:28:13 146.89 22777
 036 11:09:25 121.59 22778
 036 12:50:37 96.29 22779
 036 14:31:49 70.99 22780
 036 16:13:01 45.69 22781
 036 17:54:13 20.39 22782
 036 19:35:26 -4.92 22783
 036 21:16:38 -30.22 22784
 036 22:57:50 -55.52 22785

 036 00:00:01 -145.01 12181
 036 01:42:05 -170.53 12182
 036 03:24:09 163.95 12183
 036 05:06:13 138.43 12184
 036 06:48:17 112.92 12185
 036 08:30:20 87.41 12186
 036 10:12:24 61.89 12187
 036 11:54:28 36.38 12188
 036 13:36:32 10.86 12189
 036 15:18:35 -14.64 12190
 036 17:00:39 -40.16 12191
 036 18:42:43 -65.68 12192
 036 20:24:47 -91.20 12193
 036 22:06:51 -116.71 12194
 036 23:48:54 -142.22 12195

SATELLITE C4

Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

037 01:37:27	-47.52	7982
037 03:22:21	-73.87	7983
037 05:07:14	-100.22	7984
037 06:52:08	-126.57	7985
037 08:37:01	-152.92	7986
037 10:21:55	-179.26	7987
037 12:06:48	154.39	7988
037 13:51:42	128.04	7989
037 15:36:35	101.69	7990
037 17:21:29	75.34	7991
037 19:06:22	48.99	7992
037 20:51:16	22.64	7993
037 22:36:09	-3.71	7994

SATELLITE C5

Ascending Node Predictions

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

037 01:04:37	95.70	4711
037 02:49:32	69.35	4712
037 04:34:28	42.99	4713
037 06:19:23	16.64	4714
037 08:04:18	-9.72	4715
037 09:49:13	-36.08	4716
037 11:34:09	-62.43	4717
037 13:19:04	-88.79	4718
037 15:03:59	-115.14	4719
037 16:48:55	-141.50	4720
037 18:33:50	-167.85	4721
037 20:18:45	165.79	4722
037 22:03:40	139.43	4723
037 23:48:36	113.08	4724

038 00:21:03	-30.05	7995
038 02:05:57	-56.40	7996
038 03:50:50	-82.75	7997
038 05:35:44	-109.10	7998
038 07:20:37	-135.45	7999
038 09:05:31	-161.80	8000
038 10:50:24	171.85	8001
038 12:35:18	145.51	8002
038 14:20:11	119.16	8003
038 16:05:05	92.81	8004
038 17:49:58	66.46	8005
038 19:34:52	40.11	8006
038 21:19:45	13.76	8007
038 23:04:39	-12.58	8008

038 01:33:31	86.72	4725
038 03:18:26	60.36	4726
038 05:03:22	34.01	4727
038 06:48:17	7.65	4728
038 08:33:12	-18.70	4729
038 10:18:07	-45.06	4730
038 12:03:03	-71.41	4731
038 13:47:58	-97.77	4732
038 15:32:53	-124.13	4733
038 17:17:49	-150.48	4734
038 19:02:44	-176.84	4735
038 20:47:39	156.81	4736
038 22:32:34	130.45	4737

039 00:49:32	-38.93	8009
039 02:34:26	-65.28	8010
039 04:19:19	-91.63	8011
039 06:04:13	-117.98	8012
039 07:49:07	-144.33	8013
039 09:34:00	-170.68	8014
039 11:18:54	162.98	8015
039 13:03:47	136.63	8016
039 14:48:41	110.28	8017
039 16:33:34	83.93	8018
039 18:18:28	57.58	8019
039 20:03:21	31.23	8020
039 21:48:15	4.88	8021
039 23:33:08	-21.47	8022

039 00:17:30	104.10	4738
039 02:02:25	77.74	4739
039 03:47:20	51.38	4740
039 05:32:16	25.03	4741
039 07:17:11	-1.33	4742
039 09:02:06	-27.68	4743
039 10:47:01	-54.04	4744
039 12:31:57	-80.40	4745
039 14:16:52	-106.75	4746
039 16:01:47	-133.11	4747
039 17:46:43	-159.46	4748
039 19:31:38	174.18	4749
039 21:16:33	147.82	4750
039 23:01:28	121.47	4751

040 01:18:02	-47.81	8023
040 03:02:55	-74.16	8024
040 04:47:49	-100.51	8025
040 06:32:42	-126.86	8026
040 08:17:36	-153.21	8027
040 10:02:29	-179.56	8028
040 11:47:23	154.10	8029
040 13:32:17	127.75	8030
040 15:17:10	101.40	8031
040 17:02:04	75.05	8032
040 18:46:57	48.70	8033
040 20:31:51	22.35	8034
040 22:16:44	-4.00	8035

040 00:46:24	95.11	4752
040 02:31:19	68.76	4753
040 04:16:14	42.40	4754
040 06:01:10	16.05	4755
040 07:46:05	-10.31	4756
040 09:31:00	-36.67	4757
040 11:15:55	-63.02	4758
040 13:00:51	-89.38	4759
040 14:45:46	-115.73	4760
040 16:30:41	-142.09	4761
040 18:15:37	-168.44	4762
040 20:00:32	165.20	4763
040 21:45:27	138.84	4764
040 23:30:22	112.49	4765

SATELLITE S2

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

037 01:39:49	-113.32	31700
037 03:21:48	-138.81	31701
037 05:03:48	-164.31	31702
037 06:45:47	170.20	31703
037 08:27:47	144.70	31704
037 10:09:46	119.21	31705
037 11:51:46	93.71	31706
037 13:33:45	68.22	31707
037 15:15:45	42.72	31708
037 16:57:44	17.23	31709
037 18:39:44	-8.27	31710
037 20:21:43	-33.76	31711
037 22:03:43	-59.26	31712
037 23:45:42	-84.75	31713

SATELLITE S3

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

037 00:39:02	-80.82	22786
037 02:20:14	-106.12	22787
037 04:01:26	-131.42	22788
037 05:42:39	-156.73	22789
037 07:23:51	177.97	22790
037 09:05:03	152.67	22791
037 10:46:15	127.37	22792
037 12:27:27	102.07	22793
037 14:08:39	76.77	22794
037 15:49:51	51.47	22795
037 17:31:04	26.16	22796
037 19:12:16	.86	22797
037 20:53:28	-24.44	22798
037 22:34:40	-49.74	22799

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

037 01:30:58	-167.74	12196
037 03:13:02	166.75	12197
037 04:55:06	141.23	12198
037 06:37:10	115.71	12199
037 08:19:13	90.21	12200
037 10:01:17	64.69	12201
037 11:43:21	39.17	12202
037 13:25:25	13.66	12203
037 15:07:29	-11.86	12204
037 16:49:32	-37.37	12205
037 18:31:36	-62.88	12206
037 20:13:40	-88.40	12207
037 21:55:44	-113.92	12208
037 23:37:47	-139.42	12209

038 01:27:42	-110.25	31714
038 03:09:41	-135.74	31715
038 04:51:41	-161.24	31716
038 06:33:40	173.27	31717
038 08:15:40	147.77	31718
038 09:57:39	122.28	31719
038 11:39:39	96.78	31720
038 13:21:38	71.29	31721
038 15:03:38	45.79	31722
038 16:45:37	20.30	31723
038 18:27:37	-5.20	31724
038 20:09:36	-30.69	31725
038 21:51:36	-56.19	31726
038 23:33:35	-81.68	31727

038 00:15:52	-75.04	22800
038 01:57:04	-100.34	22801
038 03:38:16	-125.64	22802
038 05:19:29	-150.95	22803
038 07:00:41	-176.25	22804
038 08:41:53	158.45	22805
038 10:23:05	133.15	22806
038 12:04:17	107.86	22807
038 13:45:29	82.56	22808
038 15:26:42	57.24	22809
038 17:07:54	31.94	22810
038 18:49:06	6.65	22811
038 20:30:18	-18.65	22812
038 22:11:30	-43.95	22813
038 23:52:42	-69.25	22814

038 01:19:51	-164.94	12210
038 03:01:55	169.54	12211
038 04:43:59	144.02	12212
038 06:26:03	118.51	12213
038 08:08:06	93.00	12214
038 09:50:10	67.49	12215
038 11:32:14	41.97	12216
038 13:14:18	16.45	12217
038 14:56:22	-9.07	12218
038 16:38:25	-34.57	12219
038 18:20:29	-60.09	12220
038 20:02:33	-85.61	12221
038 21:44:37	-111.12	12222
038 23:26:41	-136.64	12223

039 01:15:35	-107.18	31728
039 02:57:34	-132.67	31729
039 04:39:34	-158.17	31730
039 06:21:33	176.34	31731
039 08:03:33	150.83	31732
039 09:45:32	125.35	31733
039 11:27:32	99.84	31734
039 13:09:31	74.36	31735
039 14:51:31	48.85	31736
039 16:33:30	23.37	31737
039 18:15:30	-2.14	31738
039 19:57:29	-27.62	31739
039 21:39:29	-53.13	31740
039 23:21:28	-78.62	31741

039 01:33:54	-94.55	22815
039 03:15:07	-119.86	22816
039 04:56:19	-145.16	22817
039 06:37:31	-170.46	22818
039 08:18:43	164.24	22819
039 09:59:55	138.94	22820
039 11:41:07	113.64	22821
039 13:22:20	88.33	22822
039 15:03:32	63.03	22823
039 16:44:44	37.73	22824
039 18:25:56	12.43	22825
039 20:07:08	-12.87	22826
039 21:48:20	-38.17	22827
039 23:29:32	-63.47	22828

039 01:08:44	-162.14	12224
039 02:50:48	172.34	12225
039 04:32:52	146.82	12226
039 06:14:56	121.30	12227
039 07:56:59	95.80	12228
039 09:39:03	70.28	12229
039 11:21:07	44.76	12230
039 13:03:11	19.25	12231
039 14:45:15	-6.27	12232
039 16:27:18	-31.76	12233
039 18:09:22	-57.29	12234
039 19:51:26	-82.81	12235
039 21:33:30	-108.33	12236
039 23:15:34	-133.85	12237

040 01:03:28	-104.12	31742
040 02:45:27	-129.61	31743
040 04:27:27	-155.11	31744
040 06:09:26	179.40	31745
040 07:51:26	153.90	31746
040 09:33:25	128.41	31747
040 11:15:25	102.91	31748
040 12:57:24	77.42	31749
040 14:39:24	51.92	31750
040 16:21:23	26.43	31751
040 18:03:23	.93	31752
040 19:45:22	-24.56	31753
040 21:27:22	-50.06	31754
040 23:09:21	-75.55	31755

040 01:10:45	-88.78	22829
040 02:51:57	-114.08	22830
040 04:33:09	-139.38	22831
040 06:14:21	-164.68	22832
040 07:55:33	170.02	22833
040 09:36:45	144.72	22834
040 11:17:58	119.41	22835
040 12:59:10	94.11	22836
040 14:40:22	68.81	22837
040 16:21:34	43.51	22838
040 18:02:46	18.21	22839
040 19:43:58	-7.09	22840
040 21:25:10	-32.39	22841
040 23:06:23	-57.70	22842

040 00:57:37	-159.35	12238
040 02:39:41	175.13	12239
040 04:21:45	149.62	12240
040 06:03:49	124.10	12241
040 07:45:53	98.58	12242
040 09:27:56	73.08	12243
040 11:10:00	47.56	12244
040 12:52:04	22.04	12245
040 14:34:08	-3.98	12246
040 16:16:12	-28.99	12247
040 17:58:15	-54.50	12248
040 19:40:19	-80.02	12249
040 21:22:23	-105.53	12250
040 23:04:27	-131.05	12251

SATELLITE C4
Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

041 00:01:38	-30.34	8036
041 01:46:31	-56.69	8037
041 03:31:25	-83.04	8038
041 05:16:18	-109.39	8039
041 07:01:12	-135.74	8040
041 08:46:05	-162.09	8041
041 10:30:59	171.56	8042
041 12:15:52	145.21	8043
041 14:00:46	118.87	8044
041 15:45:39	92.52	8045
041 17:30:33	66.17	8046
041 19:15:27	39.82	8047
041 21:00:20	13.47	8048
041 22:45:14	-12.87	8049

SATELLITE C5
Ascending Node Predictions
Predicting for 185 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

041 01:15:18	86.13	4766
041 03:00:13	59.77	4767
041 04:45:08	33.42	4768
041 06:30:04	7.06	4769
041 08:14:59	-19.29	4770
041 09:59:54	-45.65	4771
041 11:44:49	-72.01	4772
041 13:29:45	-98.36	4773
041 15:14:40	-124.72	4774
041 16:59:35	-151.07	4775
041 18:44:31	-177.43	4776
041 20:29:26	156.22	4777
041 22:14:21	129.86	4778
041 23:59:16	103.50	4779

042 00:30:07	-39.22	8050
042 02:15:01	-65.57	8051
042 03:59:54	-91.92	8052
042 05:44:48	-118.27	8053
042 07:29:41	-144.62	8054
042 09:14:35	-170.97	8055
042 10:59:28	162.68	8056
042 12:44:22	136.34	8057
042 14:29:15	109.99	8058
042 16:14:09	83.64	8059
042 17:59:02	57.29	8060
042 19:43:56	30.94	8061
042 21:28:49	4.59	8062
042 23:13:43	-21.75	8063

042 01:44:12	77.15	4780
042 03:29:07	50.79	4781
042 05:14:02	24.44	4782
042 06:58:58	-1.92	4783
042 08:43:53	-28.27	4784
042 10:28:48	-54.63	4785
042 12:13:43	-80.99	4786
042 13:58:39	-107.34	4787
042 15:43:34	-133.70	4788
042 17:28:29	-160.05	4789
042 19:13:25	173.59	4790
042 20:58:20	147.23	4791
042 22:43:15	120.88	4792

043 00:58:36	-48.10	8064
043 02:43:30	-74.45	8065
043 04:28:23	-100.80	8066
043 06:13:17	-127.15	8067
043 07:58:11	-153.50	8068
043 09:43:04	-179.85	8069
043 11:27:58	153.81	8070
043 13:12:51	127.46	8071
043 14:57:45	101.11	8072
043 16:42:38	74.76	8073
043 18:27:32	48.41	8074
043 20:12:25	22.06	8075
043 21:57:19	-4.29	8076
043 23:42:12	-30.64	8077

043 00:28:10	94.52	4793
043 02:13:06	68.17	4794
043 03:58:01	41.81	4795
043 05:42:56	15.45	4796
043 07:27:52	-10.90	4797
043 09:12:47	-37.26	4798
043 10:57:42	-63.61	4799
043 12:42:37	-89.97	4800
043 14:27:33	-116.32	4801
043 16:12:28	-142.68	4802
043 17:57:23	-169.04	4803
043 19:42:18	164.61	4804
043 21:27:14	138.25	4805
043 23:12:09	111.90	4806

044 01:27:06	-56.98	8078
044 03:11:59	-83.33	8079
044 04:56:53	-109.68	8080
044 06:41:46	-136.03	8081
044 08:26:40	-162.38	8082
044 10:11:33	171.27	8083
044 11:56:27	144.93	8084
044 13:41:20	118.58	8085
044 15:26:14	92.23	8086
044 17:11:07	65.88	8087
044 18:56:01	39.53	8088
044 20:40:55	13.18	8089
044 22:25:48	-13.17	8090

044 00:57:04	85.54	4807
044 02:42:00	59.19	4808
044 04:26:55	32.83	4809
044 06:11:50	6.47	4810
044 07:56:45	-19.88	4811
044 09:41:41	-46.24	4812
044 11:26:36	-72.59	4813
044 13:11:31	-98.95	4814
044 14:56:27	-125.30	4815
044 16:41:22	-151.66	4816
044 18:26:17	-178.02	4817
044 20:11:12	155.63	4818
044 21:56:08	129.27	4819
044 23:41:03	102.91	4820

SATELLITE S2

Ascending Node Predictions

Predicting for 184 days

TIME (GMT)	E LONG ORBIT
day hr mn sc	deg dg

041 00:51:21	-101.05	31756
041 02:33:20	-126.54	31757
041 04:15:20	-152.04	31758
041 05:57:19	-177.53	31759
041 07:39:19	156.97	31760
041 09:21:18	131.48	31761
041 11:03:18	105.98	31762
041 12:45:17	80.49	31763
041 14:27:17	54.99	31764
041 16:09:16	29.50	31765
041 17:51:16	4.00	31766
041 19:33:15	-21.49	31767
041 21:15:15	-46.99	31768
041 22:57:14	-72.48	31769

SATELLITE S3

Ascending Node Predictions

Predicting for 184 days

TIME (GMT)	E LONG ORBIT
day hr mn sc	deg dg

041 00:47:35	-83.00	22843
041 02:28:47	-108.30	22844
041 04:09:59	-133.60	22845
041 05:51:11	-158.89	22846
041 07:32:23	175.81	22847
041 09:13:36	150.49	22848
041 10:54:48	125.19	22849
041 12:36:00	99.90	22850
041 14:17:12	74.60	22851
041 15:58:24	49.30	22852
041 17:39:36	24.00	22853
041 19:20:48	-1.30	22854
041 21:02:01	-26.61	22855
041 22:43:13	-51.91	22856

SATELLITE S4

Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG ORBIT
day hr mn sc	deg dg

041 00:46:30	-156.55	12252
041 02:28:34	177.93	12253
041 04:10:38	152.41	12254
041 05:52:42	126.89	12255
041 07:34:46	101.38	12256
041 09:16:49	75.87	12257
041 10:58:53	50.35	12258
041 12:40:57	24.84	12259
041 14:23:01	-6.68	12260
041 16:05:05	-26.20	12261
041 17:47:08	-51.70	12262
041 19:29:12	-77.22	12263
041 21:11:16	-102.74	12264
041 22:53:20	-128.25	12265

042 00:39:14	-97.98	31770
042 02:21:13	-123.47	31771
042 04:03:13	-148.97	31772
042 05:45:12	-174.46	31773
042 07:27:12	160.04	31774
042 09:09:11	134.55	31775
042 10:51:11	109.05	31776
042 12:33:11	83.54	31777
042 14:15:10	58.06	31778
042 15:57:10	32.55	31779
042 17:39:09	7.06	31780
042 19:21:09	-18.44	31781
042 21:03:08	-43.93	31782
042 22:45:08	-69.43	31783

042 00:24:25	-77.21	22857
042 02:05:37	-102.51	22858
042 03:46:49	-127.81	22859
042 05:28:01	-153.11	22860
042 07:09:14	-178.42	22861
042 08:50:26	156.28	22862
042 10:31:38	130.98	22863
042 12:12:50	105.68	22864
042 13:54:02	80.38	22865
042 15:35:14	55.08	22866
042 17:16:26	29.78	22867
042 18:57:39	4.47	22868
042 20:38:51	-20.83	22869
042 22:20:03	-46.13	22870

042 00:35:24	-153.77	12266
042 02:17:27	-179.28	12267
042 03:59:31	155.21	12268
042 05:41:35	129.69	12269
042 07:23:39	104.17	12270
042 09:05:42	78.67	12271
042 10:47:46	53.15	12272
042 12:29:50	27.63	12273
042 14:11:54	2.11	12274
042 15:53:58	-23.40	12275
042 17:36:01	-48.91	12276
042 19:18:05	-74.42	12277
042 21:00:09	-99.94	12278
042 22:42:13	-125.46	12279

043 00:27:07	-94.92	31784
043 02:09:07	-120.42	31785
043 03:51:06	-145.91	31786
043 05:33:06	-171.41	31787
043 07:15:05	163.10	31788
043 08:57:05	137.60	31789
043 10:39:04	112.11	31790
043 12:21:04	86.61	31791
043 14:03:03	61.12	31792
043 15:45:03	35.62	31793
043 17:27:02	10.13	31794
043 19:09:02	-15.37	31795
043 20:51:01	-40.86	31796
043 22:33:01	-66.36	31797

043 00:01:15	-71.43	22871
043 01:42:27	-96.73	22872
043 03:23:39	-122.03	22873
043 05:04:52	-147.34	22874
043 06:46:04	-172.64	22875
043 08:27:16	162.06	22876
043 10:08:28	136.76	22877
043 11:49:40	111.46	22878
043 13:30:52	86.16	22879
043 15:12:04	60.87	22880
043 16:53:17	35.55	22881
043 18:34:29	10.25	22882
043 20:15:41	-15.05	22883
043 21:56:53	-40.34	22884
043 23:38:05	-65.64	22885

043 00:24:17	-150.98	12280
043 02:06:20	-176.48	12281
043 03:48:24	158.00	12282
043 05:30:28	132.48	12283
043 07:12:32	106.97	12284
043 08:54:36	81.45	12285
043 10:36:39	55.95	12286
043 12:18:43	30.43	12287
043 14:00:47	4.91	12288
043 15:42:51	-20.61	12289
043 17:24:55	-46.12	12290
043 19:06:58	-71.63	12291
043 20:49:02	-97.15	12292
043 22:31:06	-122.66	12293

044 00:15:00	-91.85	31798
044 01:57:00	-117.35	31799
044 03:38:59	-142.84	31800
044 05:20:59	-168.34	31801
044 07:02:58	166.17	31802
044 08:44:58	140.67	31803
044 10:26:57	115.18	31804
044 12:08:57	89.68	31805
044 13:50:56	64.19	31806
044 15:32:56	38.69	31807
044 17:14:55	13.20	31808
044 18:56:55	-12.30	31809
044 20:38:54	-37.79	31810
044 22:20:54	-63.29	31811

044 01:19:17	-90.94	22886
044 03:00:30	-116.26	22887
044 04:41:42	-141.55	22888
044 06:22:54	-166.85	22889
044 08:04:06	167.85	22890
044 09:45:18	142.55	22891
044 11:26:30	117.25	22892
044 13:07:42	91.95	22893
044 14:48:55	66.64	22894
044 16:30:07	41.34	22895
044 18:11:19	16.04	22896
044 19:52:31	-9.26	22897
044 21:33:43	-34.56	22898
044 23:14:55	-59.86	22899

044 00:13:10	-148.18	12294
044 01:55:13	-173.69	12295
044 03:37:17	160.80	12296
044 05:19:21	135.28	12297
044 07:01:25	109.76	12298
044 08:43:29	84.24	12299
044 10:25:32	58.74	12300
044 12:07:36	33.22	12301
044 13:49:40	7.71	12302
044 15:31:44	-17.81	12303
044 17:13:48	-43.33	12304
044 18:55:51	-68.83	12305
044 20:37:55	-94.35	12306
044 22:19:59	-119.87	12307

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

045 00:10:42	-39.51	8091
045 01:55:35	-65.86	8092
045 03:40:29	-92.21	8093
045 05:25:22	-118.56	8094
045 07:10:16	-144.91	8095
045 08:55:09	-171.26	8096
045 10:40:03	162.40	8097
045 12:24:56	136.05	8098
045 14:09:50	109.70	8099
045 15:54:43	83.35	8100
045 17:39:37	57.00	8101
045 19:24:30	30.65	8102
045 21:09:24	4.30	8103
045 22:54:17	-22.05	8104

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

045 01:25:58	76.56	4821
045 03:10:54	50.20	4822
045 04:55:49	23.85	4823
045 06:40:44	-2.51	4824
045 08:25:39	-28.87	4825
045 10:10:35	-55.22	4826
045 11:55:30	-81.58	4827
045 13:40:25	-107.93	4828
045 15:25:20	-134.29	4829
045 17:10:16	-160.64	4830
045 18:55:11	173.00	4831
045 20:40:06	146.64	4832
045 22:25:02	120.29	4833

046 00:39:11	-48.39	8105
046 02:24:04	-74.74	8106
046 04:08:58	-101.09	8107
046 05:53:51	-127.44	8108
046 07:38:45	-153.79	8109
046 09:23:38	179.86	8110
046 11:08:32	153.52	8111
046 12:53:26	127.17	8112
046 14:38:19	100.82	8113
046 16:23:13	74.47	8114
046 18:08:06	48.12	8115
046 19:53:00	21.77	8116
046 21:37:53	-4.58	8117
046 23:22:47	-30.92	8118

046 00:09:57	93.93	4834
046 01:54:52	67.58	4835
046 03:39:47	41.22	4836
046 05:24:43	14.87	4837
046 07:09:38	-11.49	4838
046 08:54:33	-37.85	4839
046 10:39:29	-64.20	4840
046 12:24:24	-90.56	4841
046 14:09:19	-116.91	4842
046 15:54:14	-143.27	4843
046 17:39:10	-169.62	4844
046 19:24:05	164.02	4845
046 21:09:00	137.66	4846
046 22:53:56	111.31	4847

047 01:07:40	-57.27	8119
047 02:52:34	-83.62	8120
047 04:37:27	-109.97	8121
047 06:22:21	-136.32	8122
047 08:07:14	-162.67	8123
047 09:52:08	170.99	8124
047 11:37:01	144.64	8125
047 13:21:55	118.29	8126
047 15:06:48	91.94	8127
047 16:51:42	65.59	8128
047 18:36:35	39.24	8129
047 20:21:29	12.89	8130
047 22:06:22	-13.46	8131
047 23:51:16	-39.80	8132

047 00:38:51	84.95	4848
047 02:23:46	58.59	4849
047 04:08:41	32.24	4850
047 05:53:37	5.88	4851
047 07:38:32	-20.47	4852
047 09:23:27	-46.83	4853
047 11:08:22	-73.19	4854
047 12:53:18	-99.54	4855
047 14:38:13	-125.90	4856
047 16:23:08	-152.25	4857
047 18:08:04	-178.61	4858
047 19:52:59	155.04	4859
047 21:37:54	128.68	4860
047 23:22:49	102.32	4861

048 01:36:09	-66.15	8133
048 03:21:03	-92.50	8134
048 05:05:56	-118.85	8135
048 06:50:50	-145.20	8136
048 08:35:43	-171.55	8137
048 10:20:37	162.11	8138
048 12:05:31	135.76	8139
048 13:50:24	109.41	8140
048 15:35:18	83.06	8141
048 17:20:11	56.71	8142
048 19:05:05	30.36	8143
048 20:49:58	4.01	8144
048 22:34:52	-22.33	8145

048 01:07:45	75.97	4862
048 02:52:40	49.61	4863
048 04:37:35	23.26	4864
048 06:22:31	-3.10	4865
048 08:07:26	-29.45	4866
048 09:52:21	-55.81	4867
048 11:37:16	-82.17	4868
048 13:22:12	-108.52	4869
048 15:07:07	-134.88	4870
048 16:52:02	-161.23	4871
048 18:36:57	172.41	4872
048 20:21:53	146.06	4873
048 22:06:48	119.70	4874
048 23:51:43	93.34	4875

SATELLITE S2

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

045 00:02:53	-88.78	31812
045 01:44:53	-114.28	31813
045 03:26:52	-139.77	31814
045 05:08:52	-165.27	31815
045 06:50:51	169.24	31816
045 08:32:51	143.73	31817
045 10:14:50	118.25	31818
045 11:56:50	92.74	31819
045 13:38:49	67.26	31820
045 15:20:49	41.75	31821
045 17:02:48	16.27	31822
045 18:44:48	-9.24	31823
045 20:26:47	-34.72	31824
045 22:08:47	-60.23	31825
045 23:50:46	-85.72	31826

SATELLITE S3

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

045 00:02:08	-85.17	22900
045 02:37:20	-110.47	22901
045 04:18:32	-135.77	22902
045 05:59:44	-161.07	22903
045 07:40:56	173.63	22904
045 09:22:08	148.33	22905
045 11:03:20	123.03	22906
045 12:44:33	97.72	22907
045 14:25:45	72.42	22908
045 16:06:57	47.12	22909
045 17:48:09	21.82	22910
045 19:29:21	-3.48	22911
045 21:10:33	-28.78	22912
045 22:51:46	-54.09	22913

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

045 00:02:03	-145.39	12308
045 01:44:07	-170.90	12309
045 03:26:10	163.59	12310
045 05:08:14	138.08	12311
045 06:50:18	112.56	12312
045 08:32:22	87.04	12313
045 10:14:26	61.52	12314
045 11:56:29	36.02	12315
045 13:38:33	10.50	12316
045 15:20:37	-15.02	12317
045 17:02:41	-40.53	12318
045 18:44:44	-66.04	12319
045 20:26:48	-91.55	12320
045 22:08:52	-117.07	12321
045 23:50:56	-142.59	12322

046 01:32:46	-111.22	31827
046 03:14:45	-136.71	31828
046 04:56:45	-162.21	31829
046 06:38:44	172.30	31830
046 08:20:44	146.80	31831
046 10:02:43	121.31	31832
046 11:44:43	95.81	31833
046 13:26:42	70.32	31834
046 15:08:42	44.82	31835
046 16:50:41	19.33	31836
046 18:32:41	-6.17	31837
046 20:14:40	-31.66	31838
046 21:56:40	-57.16	31839
046 23:38:39	-82.65	31840

046 00:32:58	-79.39	22914
046 02:14:10	-104.69	22915
046 03:55:22	-129.99	22916
046 05:36:34	-155.28	22917
046 07:17:46	179.42	22918
046 08:58:58	154.12	22919
046 10:40:11	128.80	22920
046 12:21:23	103.51	22921
046 14:02:35	78.21	22922
046 15:43:47	52.91	22923
046 17:24:59	27.61	22924
046 19:06:11	2.31	22925
046 20:47:24	-23.00	22926
046 22:28:36	-48.30	22927

046 01:33:00	-168.11	12323
046 03:15:03	166.39	12324
046 04:57:07	140.87	12325
046 06:39:11	115.35	12326
046 08:21:15	89.84	12327
046 10:03:19	64.32	12328
046 11:45:22	38.81	12329
046 13:27:26	13.30	12330
046 15:09:30	-12.22	12331
046 16:51:34	-37.74	12332
046 18:33:38	-63.26	12333
046 20:15:41	-88.76	12334
046 21:57:45	-114.28	12335
046 23:39:49	-139.79	12336

047 01:20:39	-108.15	31841
047 03:02:38	-133.64	31842
047 04:44:38	-159.14	31843
047 06:26:37	175.37	31844
047 08:08:37	149.87	31845
047 09:50:36	124.38	31846
047 11:32:36	98.88	31847
047 13:14:35	73.39	31848
047 14:56:35	47.89	31849
047 16:38:34	22.40	31850
047 18:20:34	-3.10	31851
047 20:02:33	-28.59	31852
047 21:44:33	-54.09	31853
047 23:26:32	-79.58	31854

047 00:09:48	-73.60	22928
047 01:51:00	-98.90	22929
047 03:32:12	-124.20	22930
047 05:13:24	-149.50	22931
047 06:54:36	-174.80	22932
047 08:35:49	159.89	22933
047 10:17:01	134.59	22934
047 11:58:13	109.29	22935
047 13:39:25	83.99	22936
047 15:20:37	58.69	22937
047 17:01:49	33.39	22938
047 18:43:02	8.08	22939
047 20:24:14	-17.22	22940
047 22:05:26	-42.52	22941
047 23:46:38	-67.82	22942

047 01:21:53	-165.31	12337
047 03:03:57	169.17	12338
047 04:46:00	143.67	12339
047 06:28:04	118.15	12340
047 08:10:08	92.63	12341
047 09:52:12	67.11	12342
047 11:34:15	41.61	12343
047 13:16:19	16.09	12344
047 14:58:23	-9.42	12345
047 16:40:27	-34.94	12346
047 18:22:31	-60.46	12347
047 20:04:34	-85.96	12348
047 21:46:38	-111.48	12349
047 23:28:42	-137.00	12350

048 01:08:32	-105.08	31855
048 02:50:31	-130.57	31856
048 04:32:31	-156.07	31857
048 06:14:30	178.44	31858
048 07:56:30	152.94	31859
048 09:38:29	127.45	31860
048 11:20:29	101.94	31861
048 13:02:28	76.46	31862
048 14:44:28	50.95	31863
048 16:26:27	25.47	31864
048 18:08:27	-0.04	31865
048 19:50:26	-25.52	31866
048 21:32:26	-51.03	31867
048 23:14:25	-76.51	31868

048 01:27:50	-93.12	22943
048 03:09:02	-118.42	22944
048 04:50:15	-143.73	22945
048 06:31:27	-169.03	22946
048 08:12:39	165.67	22947
048 09:53:51	140.37	22948
048 11:35:03	115.07	22949
048 13:16:15	89.78	22950
048 14:57:27	64.48	22951
048 16:38:40	39.16	22952
048 18:19:52	13.86	22953
048 20:01:04	-11.43	22954
048 21:42:16	-36.73	22955
048 23:23:28	-62.03	22956

048 01:10:46	-162.52	12351
048 02:52:50	171.97	12352
048 04:34:53	146.46	12353
048 06:16:57	120.94	12354
048 07:59:01	93.43	12355
048 09:41:05	69.91	12356
048 11:23:09	44.39	12357
048 13:05:12	18.89	12358
048 14:47:16	-6.63	12359
048 16:29:20	-32.15	12360
048 18:11:24	-57.66	12361
048 19:53:28	-83.18	12362
048 21:35:31	-108.69	12363
048 23:17:35	-134.20	12364

SATELLITE C4
Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

049 00:19:45 -48.68 8146
 049 02:04:39 -75.03 8147
 049 03:49:32 -101.38 8148
 049 05:34:26 -127.73 8149
 049 07:19:19 -154.08 8150
 049 09:04:13 179.58 8151
 049 10:49:06 153.23 8152
 049 12:34:00 126.88 8153
 049 14:18:53 100.53 8154
 049 16:03:47 74.18 8155
 049 17:48:40 47.83 8156
 049 19:33:34 21.49 8157
 049 21:18:27 -4.86 8158
 049 23:03:21 -31.21 8159

SATELLITE C5
Ascending Node Predictions
Predicting for 185 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

049 01:36:39 66.99 4876
 049 03:21:34 40.63 4877
 049 05:06:29 14.28 4878
 049 06:51:24 -12.08 4879
 049 08:36:20 -38.43 4880
 049 10:21:15 -64.79 4881
 049 12:06:10 -91.15 4882
 049 13:51:06 -117.50 4883
 049 15:36:01 -143.86 4884
 049 17:20:56 -170.22 4885
 049 19:05:51 163.43 4886
 049 20:50:47 137.07 4887
 049 22:35:42 110.72 4888

050 00:48:14 -57.56 8160
 050 02:33:08 -83.91 8161
 050 04:18:01 -110.26 8162
 050 06:02:55 -136.61 8163
 050 07:47:48 -162.96 8164
 050 09:32:42 170.70 8165
 050 11:17:35 144.35 8166
 050 13:02:29 118.00 8167
 050 14:47:22 91.65 8168
 050 16:32:16 65.30 8169
 050 18:17:10 38.96 8170
 050 20:02:03 12.61 8171
 050 21:46:57 -13.74 8172
 050 23:31:50 -40.09 8173

050 00:20:37 84.36 4889
 050 02:05:32 58.00 4890
 050 03:50:28 31.65 4891
 050 05:35:23 5.29 4892
 050 07:20:18 -21.06 4893
 050 09:05:14 -47.42 4894
 050 10:50:09 -73.77 4895
 050 12:35:04 -100.13 4896
 050 14:19:59 -126.49 4897
 050 16:04:55 -152.84 4898
 050 17:49:50 -179.20 4899
 050 19:34:45 154.45 4900
 050 21:19:40 128.09 4901
 050 23:04:36 101.74 4902

051 01:16:44 -66.44 8174
 051 03:01:37 -92.79 8175
 051 04:46:31 -119.14 8176
 051 06:31:24 -145.49 8177
 051 08:16:18 -171.83 8178
 051 10:01:11 161.82 8179
 051 11:46:05 135.47 8180
 051 13:30:58 109.12 8181
 051 15:15:52 82.77 8182
 051 17:00:45 56.42 8183
 051 18:45:39 30.08 8184
 051 20:30:32 3.73 8185
 051 22:15:26 -22.62 8186

051 00:49:31 75.38 4903
 051 02:34:26 49.02 4904
 051 04:19:22 22.67 4905
 051 06:04:17 -3.69 4906
 051 07:49:12 -30.04 4907
 051 09:34:07 -56.40 4908
 051 11:19:03 -82.75 4909
 051 13:03:58 -109.11 4910
 051 14:48:53 -135.47 4911
 051 16:33:49 -161.82 4912
 051 18:18:44 171.82 4913
 051 20:03:39 145.47 4914
 051 21:48:34 119.11 4915
 051 23:33:30 92.76 4916

052 00:00:19 -48.97 8187
 052 01:45:13 -75.32 8188
 052 03:30:06 -101.67 8189
 052 05:15:00 -128.02 8190
 052 06:59:53 -154.36 8191
 052 08:44:47 179.29 8192
 052 10:29:40 152.94 8193
 052 12:14:34 126.59 8194
 052 13:59:27 100.24 8195
 052 15:44:21 73.89 8196
 052 17:29:14 47.54 8197
 052 19:14:08 21.20 8198
 052 20:59:01 -5.15 8199
 052 22:43:55 -31.50 8200

052 01:18:25 66.40 4917
 052 03:03:20 40.04 4918
 052 04:48:15 13.69 4919
 052 06:33:11 -12.67 4920
 052 08:18:06 -39.02 4921
 052 10:03:01 -65.38 4922
 052 11:47:57 -91.74 4923
 052 13:32:52 -118.09 4924
 052 15:17:47 -144.45 4925
 052 17:02:42 -170.81 4926
 052 18:47:38 162.84 4927
 052 20:32:33 136.48 4928
 052 22:17:28 110.13 4929

West longitude is negative (-)

SATELLITE S2

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

049 00:56:25	-102.02	31869
049 02:38:24	-127.51	31870
049 04:20:24	-153.01	31871
049 06:02:23	-178.50	31872
049 07:44:23	156.00	31873
049 09:26:22	130.51	31874
049 11:08:22	105.01	31875
049 12:50:21	79.52	31876
049 14:32:21	54.02	31877
049 16:14:20	29.53	31878
049 17:56:20	3.03	31879
049 19:38:19	-22.46	31880
049 21:20:19	-47.96	31881
049 23:02:18	-73.45	31882

SATELLITE S3

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

049 01:04:40	-87.33	22957
049 02:45:53	-112.64	22958
049 04:27:05	-137.94	22959
049 06:08:17	-163.24	22960
049 07:49:29	171.46	22961
049 09:30:41	146.16	22962
049 11:11:53	120.86	22963
049 12:53:06	95.55	22964
049 14:34:18	70.25	22965
049 16:15:30	44.95	22966
049 17:56:42	19.65	22967
049 19:37:54	-5.65	22968
049 21:19:06	-30.95	22969
049 23:00:18	-56.25	22970

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

049 00:59:39	-159.72	12365
049 02:41:43	174.76	12366
049 04:23:47	149.24	12367
049 06:05:50	123.74	12368
049 07:47:54	98.22	12369
049 09:29:58	72.71	12370
049 11:12:02	47.19	12371
049 12:54:05	21.68	12372
049 14:36:09	-3.83	12373
049 16:18:13	-29.35	12374
049 18:00:17	-54.87	12375
049 19:42:21	-80.39	12376
049 21:24:24	-105.89	12377
049 23:06:28	-131.41	12378

050 00:44:18	-98.95	31883
050 02:26:17	-124.44	31884
050 04:08:17	-149.94	31885
050 05:50:16	-175.43	31886
050 07:32:16	159.07	31887
050 09:14:15	133.58	31888
050 10:56:15	108.08	31889
050 12:38:14	82.59	31890
050 14:20:14	57.09	31891
050 16:02:13	31.60	31892
050 17:44:13	6.10	31893
050 19:26:12	-19.39	31894
050 21:08:12	-44.89	31895
050 22:50:11	-70.38	31896

050 00:41:31	-81.56	22971
050 02:22:43	-106.86	22972
050 04:03:55	-132.16	22973
050 05:45:07	-157.46	22974
050 07:26:19	177.24	22975
050 09:07:31	151.94	22976
050 10:48:44	126.63	22977
050 12:29:56	101.33	22978
050 14:11:08	76.03	22979
050 15:52:20	50.73	22980
050 17:33:32	25.43	22981
050 19:14:44	.13	22982
050 20:55:56	-25.16	22983
050 22:37:09	-50.48	22984

050 00:48:32	-156.92	12379
050 02:30:36	177.56	12380
050 04:12:40	152.04	12381
050 05:54:43	126.54	12382
050 07:36:47	101.02	12383
050 09:18:51	75.50	12384
050 11:00:55	49.98	12385
050 12:42:59	24.47	12386
050 14:25:02	-1.04	12387
050 16:07:06	-26.55	12388
050 17:49:10	-52.07	12389
050 19:31:14	-77.59	12390
050 21:13:18	-103.11	12391
050 22:55:21	-128.61	12392

051 00:32:11	-95.88	31897
051 02:14:10	-121.37	31898
051 03:56:10	-146.87	31899
051 05:38:09	-172.36	31900
051 07:20:09	162.14	31901
051 09:02:08	136.65	31902
051 10:44:08	111.14	31903
051 12:26:07	85.66	31904
051 14:08:07	60.15	31905
051 15:50:06	34.67	31906
051 17:32:06	9.16	31907
051 19:14:05	-16.32	31908
051 20:56:05	-41.83	31909
051 22:38:04	-67.32	31910

051 00:18:21	-75.78	22985
051 01:59:33	-101.08	22986
051 03:40:45	-126.37	22987
051 05:21:57	-151.67	22988
051 07:03:09	-176.97	22989
051 08:44:22	157.71	22990
051 10:25:34	132.42	22991
051 12:06:46	107.12	22992
051 13:47:58	81.82	22993
051 15:29:10	56.52	22994
051 17:10:22	31.22	22995
051 18:51:35	5.91	22996
051 20:32:47	-19.39	22997
051 22:13:59	-44.69	22998
051 23:55:11	-69.99	22999

051 00:37:25	-154.13	12393
051 02:19:29	-179.65	12394
051 04:01:33	154.84	12395
051 05:43:37	129.32	12396
051 07:25:40	103.81	12397
051 09:07:44	78.30	12398
051 10:49:48	52.78	12399
051 12:31:52	27.26	12400
051 14:13:55	1.76	12401
051 15:55:59	-23.76	12402
051 17:38:03	-49.28	12403
051 19:20:07	-74.79	12404
051 21:02:11	-100.31	12405
051 22:44:14	-125.82	12406

052 00:20:04	-92.82	31911
052 02:02:03	-118.31	31912
052 03:44:03	-143.81	31913
052 05:26:02	-169.30	31914
052 07:08:02	165.20	31915
052 08:50:01	139.71	31916
052 10:32:01	114.21	31917
052 12:14:00	88.72	31918
052 13:56:00	63.22	31919
052 15:37:59	37.73	31920
052 17:19:59	12.23	31921
052 19:01:58	-13.26	31922
052 20:43:58	-38.76	31923
052 22:25:57	-64.25	31924

052 01:36:23	-95.29	23000
052 03:17:35	-120.59	23001
052 04:58:47	-145.89	23002
052 06:40:00	-171.20	23003
052 08:21:12	163.50	23004
052 10:02:24	138.20	23005
052 11:43:36	112.90	23006
052 13:24:48	87.60	23007
052 15:06:00	62.30	23008
052 16:47:13	36.99	23009
052 18:28:25	11.69	23010
052 20:09:37	-13.61	23011
052 21:50:49	-38.91	23012
052 23:32:01	-64.21	23013

052 00:26:18	-151.33	12407
052 02:08:22	-176.95	12408
052 03:50:26	157.63	12409
052 05:32:30	132.11	12410
052 07:14:33	106.61	12411
052 08:56:37	81.09	12412
052 10:38:41	55.58	12413
052 12:20:45	30.06	12414
052 14:02:49	4.54	12415
052 15:44:52	-20.96	12416
052 17:26:56	-46.48	12417
052 19:09:00	-72.00	12418
052 20:51:04	-97.52	12419
052 22:33:08	-123.03	12420

SATELLITE C4**Ascending Node Predictions****Predicting for 183 days**

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

053 00:28:48	-57.85	8201
053 02:13:42	-84.20	8202
053 03:58:35	-110.55	8203
053 05:43:29	-136.89	8204
053 07:28:22	-163.24	8205
053 09:13:16	170.41	8206
053 10:58:09	144.06	8207
053 12:43:03	117.71	8208
053 14:27:57	91.36	8209
053 16:12:50	65.01	8210
053 17:57:44	38.67	8211
053 19:42:37	12.32	8212
053 21:27:31	-14.03	8213
053 23:12:24	-40.38	8214

SATELLITE C5**Ascending Node Predictions****Predicting for 185 days**

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

053 00:02:23	83.77	4930
053 01:47:19	57.42	4931
053 03:32:14	31.06	4932
053 05:17:09	4.70	4933
053 07:02:05	-21.65	4934
053 08:47:00	-48.01	4935
053 10:31:55	-74.36	4936
053 12:16:50	-100.72	4937
053 14:01:46	-127.07	4938
053 15:46:41	-153.43	4939
053 17:31:36	-179.79	4940
053 19:16:32	153.86	4941
053 21:01:27	127.50	4942
053 22:46:22	101.15	4943

054 00:57:18	-66.73	8215
054 02:42:11	-93.08	8216
054 04:27:05	-119.42	8217
054 06:11:58	-145.77	8218
054 07:56:52	-172.12	8219
054 09:41:45	161.53	8220
054 11:26:39	135.18	8221
054 13:11:32	108.83	8222
054 14:56:26	82.49	8223
054 16:41:19	56.14	8224
054 18:26:13	29.79	8225
054 20:11:06	3.44	8226
054 21:56:00	-22.91	8227
054 23:40:53	-49.26	8228

054 00:31:17	74.79	4944
054 02:16:13	48.44	4945
054 04:01:08	22.08	4946
054 05:46:03	-4.28	4947
054 07:30:58	-30.63	4948
054 09:15:54	-56.99	4949
054 11:00:49	-83.34	4950
054 12:45:44	-109.70	4951
054 14:30:40	-136.05	4952
054 16:15:35	-162.41	4953
054 18:00:30	171.23	4954
054 19:45:25	144.88	4955
054 21:30:21	118.52	4956
054 23:15:16	92.17	4957

055 01:25:47	-75.61	8229
055 03:10:40	-101.96	8230
055 04:55:34	-128.30	8231
055 06:40:27	-154.65	8232
055 08:25:21	179.00	8233
055 10:10:14	152.65	8234
055 11:55:08	126.30	8235
055 13:40:01	99.95	8236
055 15:24:55	73.61	8237
055 17:09:48	47.26	8238
055 18:54:42	20.91	8239
055 20:39:35	-5.44	8240
055 22:24:29	-31.79	8241

055 01:00:11	65.81	4958
055 02:45:06	39.45	4959
055 04:30:02	13.10	4960
055 06:14:57	-13.26	4961
055 07:59:52	-39.61	4962
055 09:44:48	-65.97	4963
055 11:29:43	-92.33	4964
055 13:14:38	-118.68	4965
055 14:59:33	-145.04	4966
055 16:44:29	-171.39	4967
055 18:29:24	162.25	4968
055 20:14:19	135.89	4969
055 21:59:15	109.54	4970
055 23:44:10	83.18	4971

056 00:09:22	-58.14	8242
056 01:54:16	-84.48	8243
056 03:39:09	-110.83	8244
056 05:24:03	-137.18	8245
056 07:08:56	-163.53	8246
056 08:53:50	170.12	8247
056 10:38:43	143.77	8248
056 12:23:37	117.42	8249
056 14:08:30	91.07	8250
056 15:53:24	64.73	8251
056 17:38:17	38.38	8252
056 19:23:11	12.03	8253
056 21:08:04	-14.32	8254
056 22:52:58	-40.67	8255

056 01:29:05	56.83	4972
056 03:14:00	30.47	4973
056 04:58:56	4.12	4974
056 06:43:51	-22.24	4975
056 08:28:46	-48.60	4976
056 10:13:41	-74.95	4977
056 11:58:37	-101.31	4978
056 13:43:32	-127.66	4979
056 15:28:27	-154.02	4980
056 17:13:23	179.63	4981
056 18:58:18	153.27	4982
056 20:43:13	126.91	4983
056 22:28:08	100.56	4984

SATELLITE S2

Ascending Node Predictions
Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	
053 00:07:57	-89.75	31925
053 01:49:56	-115.24	31926
053 03:31:56	-140.74	31927
053 05:13:55	-166.23	31928
053 06:55:55	168.27	31929
053 08:37:54	142.78	31930
053 10:19:54	117.28	31931
053 12:01:53	91.79	31932
053 13:43:53	66.29	31933
053 15:25:52	40.80	31934
053 17:07:52	15.30	31935
053 18:49:51	-10.19	31936
053 20:31:51	-35.69	31937
053 22:13:50	-61.18	31938
053 23:55:50	-86.68	31939

SATELLITE S3

Ascending Node Predictions
Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	
053 01:13:13	-89.51	23014
053 02:54:26	-114.82	23015
053 04:35:38	-140.12	23016
053 06:16:50	-165.42	23017
053 07:58:02	169.28	23018
053 09:39:14	143.99	23019
053 11:20:26	118.69	23020
053 13:01:39	93.37	23021
053 14:42:51	68.07	23022
053 16:24:03	42.78	23023
053 18:05:15	17.48	23024
053 19:46:27	-7.82	23025
053 21:27:39	-33.12	23026
053 23:08:51	-58.42	23027

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	
053 00:15:11	-148.54	12421
053 01:57:15	-174.05	12422
053 03:39:19	160.43	12423
053 05:21:23	134.91	12424
053 07:03:27	109.39	12425
053 08:45:30	83.89	12426
053 10:27:34	58.37	12427
053 12:09:38	32.85	12428
053 13:51:42	7.34	12429
053 15:33:46	-18.18	12430
053 17:15:49	-43.68	12431
053 18:57:53	-69.20	12432
053 20:39:57	-94.72	12433
053 22:22:01	-120.24	12434

053 00:07:57	-89.75	31925
053 01:49:56	-115.24	31926
053 03:31:56	-140.74	31927
053 05:13:55	-166.23	31928
053 06:55:55	168.27	31929
053 08:37:54	142.78	31930
053 10:19:54	117.28	31931
053 12:01:53	91.79	31932
053 13:43:53	66.29	31933
053 15:25:52	40.80	31934
053 17:07:52	15.30	31935
053 18:49:51	-10.19	31936
053 20:31:51	-35.69	31937
053 22:13:50	-61.18	31938
053 23:55:50	-86.68	31939

053 01:13:13	-89.51	23014
053 02:54:26	-114.82	23015
053 04:35:38	-140.12	23016
053 06:16:50	-165.42	23017
053 07:58:02	169.28	23018
053 09:39:14	143.99	23019
053 11:20:26	118.69	23020
053 13:01:39	93.37	23021
053 14:42:51	68.07	23022
053 16:24:03	42.78	23023
053 18:05:15	17.48	23024
053 19:46:27	-7.82	23025
053 21:27:39	-33.12	23026
053 23:08:51	-58.42	23027

053 00:15:11	-148.54	12421
053 01:57:15	-174.05	12422
053 03:39:19	160.43	12423
053 05:21:23	134.91	12424
053 07:03:27	109.39	12425
053 08:45:30	83.89	12426
053 10:27:34	58.37	12427
053 12:09:38	32.85	12428
053 13:51:42	7.34	12429
053 15:33:46	-18.18	12430
053 17:15:49	-43.68	12431
053 18:57:53	-69.20	12432
053 20:39:57	-94.72	12433
053 22:22:01	-120.24	12434

054 01:37:49	-112.17	31940
054 03:19:49	-137.67	31941
054 05:01:48	-163.16	31942
054 06:43:48	171.33	31943
054 08:25:47	145.85	31944
054 10:07:47	120.34	31945
054 11:49:46	94.86	31946
054 13:31:46	69.35	31947
054 15:13:45	43.87	31948
054 16:55:45	18.36	31949
054 18:37:44	-7.13	31950
054 20:19:44	-32.63	31951
054 22:01:43	-58.12	31952
054 23:43:43	-83.62	31953

054 00:50:04	-83.73	23028
054 02:31:16	-109.03	23029
054 04:12:28	-134.33	23030
054 05:53:40	-159.63	23031
054 07:34:52	175.07	23032
054 09:16:04	149.77	23033
054 10:57:17	124.46	23034
054 12:38:29	99.16	23035
054 14:19:41	73.86	23036
054 16:00:53	48.56	23037
054 17:42:05	23.26	23038
054 19:23:17	-2.04	23039
054 21:04:30	-27.35	23040
054 22:45:42	-52.65	23041

054 00:04:04	-145.74	12435
054 01:46:08	-171.26	12436
054 03:28:12	163.22	12437
054 05:10:16	137.71	12438
054 06:52:20	112.19	12439
054 08:34:23	86.69	12440
054 10:16:27	61.17	12441
054 11:58:31	35.65	12442
054 13:40:35	10.13	12443
054 15:22:39	-15.38	12444
054 17:04:42	-40.89	12445
054 18:46:46	-66.41	12446
054 20:28:50	-91.92	12447
054 22:10:54	-117.44	12448
054 23:52:58	-142.96	12449

055 01:25:42	-109.11	31954
055 03:07:42	-134.61	31955
055 04:49:41	-160.10	31956
055 06:31:41	174.40	31957
055 08:13:40	148.91	31958
055 09:55:40	123.41	31959
055 11:37:39	97.92	31960
055 13:19:39	72.42	31961
055 15:01:38	46.93	31962
055 16:43:38	21.43	31963
055 18:25:37	-4.06	31964
055 20:07:37	-29.56	31965
055 21:49:36	-55.05	31966
055 23:31:36	-80.55	31967

055 00:26:54	-77.95	23042
055 02:08:06	-103.25	23043
055 03:49:18	-128.55	23044
055 05:30:30	-153.85	23045
055 07:11:42	-179.15	23046
055 08:52:55	155.54	23047
055 10:34:07	130.24	23048
055 12:15:19	104.94	23049
055 13:56:31	79.64	23050
055 15:37:43	54.35	23051
055 17:18:55	29.05	23052
055 19:00:08	3.73	23053
055 20:41:20	-21.57	23054
055 22:22:32	-46.86	23055

055 01:35:01	-168.46	12450
055 03:17:05	166.02	12451
055 04:59:09	140.50	12452
055 06:41:13	114.99	12453
055 08:23:17	89.47	12454
055 10:05:20	63.96	12455
055 11:47:24	38.45	12456
055 13:29:28	12.93	12457
055 15:11:32	-12.59	12458
055 16:53:36	-38.11	12459
055 18:35:39	-63.61	12460
055 20:17:43	-89.13	12461
055 21:59:47	-114.64	12462
055 23:41:51	-140.16	12463

056 01:13:35	-106.04	31968
056 02:55:35	-131.54	31969
056 04:37:34	-157.03	31970
056 06:19:34	177.47	31971
056 08:01:33	151.98	31972
056 09:43:33	126.48	31973
056 11:25:32	100.99	31974
056 13:07:32	75.49	31975
056 14:49:31	50.00	31976
056 16:31:31	24.50	31977
056 18:13:30	-9.99	31978
056 19:55:30	-26.49	31979
056 21:37:29	-51.98	31980
056 23:19:29	-77.48	31981

056 00:03:44	-72.16	23056
056 01:44:56	-97.46	23057
056 03:26:08	-122.76	23058
056 05:07:21	-148.07	23059
056 06:48:33	-173.37	23060
056 08:29:45	161.33	23061
056 10:10:57	136.03	23062
056 11:52:09	110.73	23063
056 13:33:21	85.43	23064
056 15:14:34	60.12	23065
056 16:55:46	34.82	23066
056 18:36:58	9.52	23067
056 20:18:10	-15.78	23068
056 21:59:22	-41.08	23069
056 23:40:34	-66.38	23070

056 01:23:55	-165.68	12464
056 03:05:58	168.82	12465
056 04:48:02	143.30	12466
056 06:30:06	117.78	12467
056 08:12:10	92.26	12468
056 09:54:14	66.75	12469
056 11:36:17	41.24	12470
056 13:18:21	15.73	12471
056 15:00:25	-9.79	12472
056 16:42:29	-35.31	12473
056 18:24:33	-60.83	12474
056 20:06:36	-86.33	12475
056 21:48:40	-111.85	12476
056 23:30:44	-137.37	12477

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

057 00:37:51	-67.02	8256
057 02:22:45	-93.36	8257
057 04:07:38	-119.71	8258
057 05:52:32	-146.06	8259
057 07:37:25	-172.41	8260
057 09:22:19	161.24	8261
057 11:07:13	134.90	8262
057 12:52:06	108.55	8263
057 14:37:00	82.20	8264
057 16:21:53	55.85	8265
057 18:06:47	29.50	8266
057 19:51:40	3.15	8267
057 21:36:34	-23.20	8268
057 23:21:27	-49.55	8269

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

057 00:13:04	74.20	4985
057 01:57:59	47.85	4986
057 03:42:54	21.49	4987
057 05:27:49	-4.87	4988
057 07:12:45	-31.22	4989
057 08:57:40	-57.58	4990
057 10:42:35	-83.93	4991
057 12:27:31	-110.29	4992
057 14:12:26	-136.64	4993
057 15:57:21	-163.00	4994
057 17:42:16	170.64	4995
057 19:27:12	144.29	4996
057 21:12:07	117.93	4997
057 22:57:02	91.58	4998

058 01:06:21	-75.89	8270
058 02:51:14	-102.24	8271
058 04:36:08	-128.59	8272
058 06:21:01	-154.94	8273
058 08:05:55	178.71	8274
058 09:50:48	152.36	8275
058 11:35:42	126.02	8276
058 13:20:35	99.67	8277
058 15:05:29	73.32	8278
058 16:50:22	46.97	8279
058 18:35:16	20.62	8280
058 20:20:09	-5.73	8281
058 22:05:03	-32.07	8282
058 23:49:56	-58.42	8283

058 00:41:57	65.22	4999
058 02:26:53	38.87	5000
058 04:11:48	12.51	5001
058 05:56:43	-13.85	5002
058 07:41:39	-40.20	5003
058 09:26:34	-66.56	5004
058 11:11:29	-92.91	5005
058 12:56:24	-119.27	5006
058 14:41:20	-145.63	5007
058 16:26:15	-171.98	5008
058 18:11:10	161.66	5009
058 19:56:06	135.31	5010
058 21:41:01	108.95	5011
058 23:25:56	82.59	5012

059 01:34:50	-84.77	8284
059 03:19:43	-111.12	8285
059 05:04:37	-137.47	8286
059 06:49:30	-163.82	8287
059 08:34:24	169.84	8288
059 10:19:17	143.49	8289
059 12:04:11	117.14	8290
059 13:49:04	90.79	8291
059 15:33:58	64.44	8292
059 17:18:51	38.09	8293
059 19:03:45	11.74	8294
059 20:48:38	-14.61	8295
059 22:33:32	-40.95	8296

059 01:10:51	56.24	5013
059 02:55:47	29.88	5014
059 04:40:42	3.53	5015
059 06:25:37	-22.83	5016
059 08:10:32	-49.19	5017
059 09:55:28	-75.54	5018
059 11:40:23	-101.90	5019
059 13:25:18	-128.25	5020
059 15:10:14	-154.61	5021
059 16:55:09	179.04	5022
059 18:40:04	152.68	5023
059 20:24:59	126.32	5024
059 22:09:55	99.97	5025
059 23:54:50	73.61	5026

060 00:18:25	-67.30	8297
060 02:03:19	-93.65	8298
060 03:48:12	-120.00	8299
060 05:33:06	-146.35	8300
060 07:17:59	-172.70	8301
060 09:02:53	160.96	8302
060 10:47:46	134.61	8303
060 12:32:40	108.26	8304
060 14:17:33	81.91	8305
060 16:02:27	55.56	8306
060 17:47:20	29.21	8307
060 19:32:14	2.87	8308
060 21:17:07	-23.48	8309
060 23:02:01	-49.83	8310

060 01:39:45	47.26	5027
060 03:24:40	20.90	5028
060 05:09:36	-5.45	5029
060 06:54:31	-31.81	5030
060 08:39:26	-58.17	5031
060 10:24:22	-84.52	5032
060 12:09:17	-110.88	5033
060 13:54:12	-137.23	5034
060 15:39:07	-163.59	5035
060 17:24:03	170.06	5036
060 19:08:58	143.70	5037
060 20:53:53	117.34	5038
060 22:38:48	90.99	5039

SATELLITE S2

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

057 01:01:28	-102.97	31982
057 02:43:28	-128.48	31983
057 04:25:27	-153.96	31984
057 06:07:27	-179.47	31985
057 07:49:26	155.05	31986
057 09:31:26	129.54	31987
057 11:13:25	104.06	31988
057 12:55:25	78.55	31989
057 14:37:24	53.06	31990
057 16:19:24	27.56	31991
057 18:01:23	2.07	31992
057 19:43:23	-23.43	31993
057 21:25:22	-48.92	31994
057 23:07:22	-74.42	31995

SATELLITE S3

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

057 01:21:46	-91.68	23071
057 03:02:59	-116.99	23072
057 04:44:11	-142.29	23073
057 06:25:23	-167.59	23074
057 08:06:35	167.11	23075
057 09:47:47	141.81	23076
057 11:28:59	116.51	23077
057 13:10:12	91.20	23078
057 14:51:24	65.90	23079
057 16:32:36	40.60	23080
057 18:13:48	15.30	23081
057 19:55:00	-9.99	23082
057 21:36:12	-35.29	23083
057 23:17:25	-60.61	23084

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

057 01:12:48	-162.88	12478
057 02:54:51	171.61	12479
057 04:36:55	146.09	12480
057 06:18:59	120.58	12481
057 08:01:03	95.06	12482
057 09:43:07	69.54	12483
057 11:25:10	44.04	12484
057 13:07:14	18.52	12485
057 14:49:18	-7.00	12486
057 16:31:22	-32.51	12487
057 18:13:26	-58.03	12488
057 19:55:29	-83.54	12489
057 21:37:33	-109.05	12490
057 23:19:37	-134.57	12491

058 00:49:21	-99.91	31996
058 02:31:21	-125.41	31997
058 04:13:20	-150.90	31998
058 05:55:20	-176.40	31999
058 07:37:19	158.11	32000
058 09:19:19	132.61	32001
058 11:01:18	107.12	32002
058 12:43:18	81.62	32003
058 14:25:17	56.13	32004
058 16:07:17	30.63	32005
058 17:49:16	5.14	32006
058 19:31:16	-20.36	32007
058 21:13:15	-45.85	32008
058 22:55:15	-71.35	32009

058 00:58:37	-85.91	23085
058 02:39:49	-111.20	23086
058 04:21:01	-136.50	23087
058 06:02:13	-161.80	23088
058 07:43:25	172.90	23089
058 09:24:38	147.59	23090
058 11:05:50	122.29	23091
058 12:47:02	96.99	23092
058 14:28:14	71.69	23093
058 16:09:26	46.39	23094
058 17:50:38	21.09	23095
058 19:31:51	-4.22	23096
058 21:13:03	-29.52	23097
058 22:54:15	-54.82	23098

058 01:01:41	-160.09	12492
058 02:43:45	174.40	12493
058 04:25:48	148.89	12494
058 06:07:52	123.37	12495
058 07:49:56	97.86	12496
058 09:32:00	72.34	12497
058 11:14:04	46.82	12498
058 12:56:07	21.32	12499
058 14:38:11	-4.20	12500
058 16:20:15	-29.72	12501
058 18:02:19	-55.23	12502
058 19:44:23	-80.75	12503
058 21:26:26	-106.26	12504
058 23:08:30	-131.77	12505

059 00:37:14	-96.84	32010
059 02:19:14	-122.34	32011
059 04:01:13	-147.83	32012
059 05:43:13	-173.33	32013
059 07:25:12	161.18	32014
059 09:07:12	135.68	32015
059 10:49:11	110.19	32016
059 12:31:11	84.69	32017
059 14:13:10	59.20	32018
059 15:55:10	33.70	32019
059 17:37:09	8.21	32020
059 19:19:09	-17.30	32021
059 21:01:08	-42.78	32022
059 22:43:08	-68.29	32023

059 00:39:27	-80.12	23099
059 02:16:39	-105.42	23100
059 03:57:51	-130.72	23101
059 05:39:03	-156.02	23102
059 07:20:16	178.67	23103
059 09:01:28	153.37	23104
059 10:42:40	128.07	23105
059 12:23:52	102.77	23106
059 14:05:04	77.47	23107
059 15:46:16	52.17	23108
059 17:27:29	26.86	23109
059 19:08:41	1.56	23110
059 20:49:53	-23.74	23111
059 22:31:05	-49.04	23112

059 00:50:34	-157.29	12506
059 02:32:38	177.19	12507
059 04:14:42	151.67	12508
059 05:56:45	126.17	12509
059 07:38:49	100.65	12510
059 09:20:53	75.14	12511
059 11:02:57	49.62	12512
059 12:45:01	24.10	12513
059 14:27:04	-1.40	12514
059 16:09:08	-26.92	12515
059 17:51:12	-52.44	12516
059 19:33:16	-77.96	12517
059 21:15:20	-103.47	12518
059 22:57:23	-128.98	12519

060 00:25:07	-93.77	32024
060 02:07:07	-119.28	32025
060 03:49:06	-144.76	32026
060 05:31:06	-170.27	32027
060 07:13:05	164.24	32028
060 08:55:05	138.74	32029
060 10:37:04	113.25	32030
060 12:19:04	87.75	32031
060 14:01:03	62.26	32032
060 15:43:03	36.76	32033
060 17:25:02	11.27	32034
060 19:07:02	-14.23	32035
060 20:49:01	-39.72	32036
060 22:31:01	-65.22	32037

060 00:12:17	-74.34	23113
060 01:53:29	-99.63	23114
060 03:34:42	-124.95	23115
060 05:15:54	-150.25	23116
060 06:57:06	-175.54	23117
060 08:38:18	159.16	23118
060 10:19:30	133.86	23119
060 12:00:42	108.56	23120
060 13:41:55	83.25	23121
060 15:23:07	57.95	23122
060 17:04:19	32.65	23123
060 18:45:31	7.35	23124
060 20:26:43	-17.95	23125
060 22:07:55	-43.25	23126
060 23:49:08	-68.56	23127

060 00:39:27	-154.49	12520
060 02:21:31	179.99	12521
060 04:03:35	154.47	12522
060 05:45:39	128.95	12523
060 07:27:42	103.45	12524
060 09:09:46	77.93	12525
060 10:51:50	52.41	12526
060 12:33:54	26.90	12527
060 14:15:58	1.38	12528
060 15:58:01	-24.12	12529
060 17:40:05	-49.64	12530
060 19:22:09	-75.16	12531
060 21:04:13	-100.68	12532
060 22:46:17	-126.19	12533

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

061 00:46:54	-76.18	8311
061 02:31:48	-102.53	8312
061 04:16:41	-128.88	8313
061 06:01:35	-155.22	8314
061 07:46:28	178.43	8315
061 09:31:22	152.08	8316
061 11:16:15	125.73	8317
061 13:01:09	99.38	8318
061 14:46:02	73.03	8319
061 16:30:56	46.68	8320
061 18:15:49	20.33	8321
061 20:00:43	-6.01	8322
061 21:45:36	-32.36	8323
061 23:30:30	-58.71	8324

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

061 00:23:44	64.63	5040
061 02:08:39	38.28	5041
061 03:53:34	11.92	5042
061 05:38:30	-14.43	5043
061 07:23:25	-40.79	5044
061 09:08:20	-67.15	5045
061 10:53:15	-93.50	5046
061 12:38:11	-119.86	5047
061 14:23:06	-146.21	5048
061 16:08:01	-172.57	5049
061 17:52:57	161.07	5050
061 19:37:52	134.72	5051
061 21:22:47	108.36	5052
061 23:07:42	82.00	5053

062 01:15:23	-85.06	8325
062 03:00:17	-111.41	8326
062 04:45:10	-137.76	8327
062 06:30:04	-164.10	8328
062 08:14:57	169.55	8329
062 09:59:51	143.20	8330
062 11:44:44	116.85	8331
062 13:29:38	90.50	8332
062 15:14:31	64.15	8333
062 16:59:25	37.81	8334
062 18:44:18	11.46	8335
062 20:29:12	-14.89	8336
062 22:14:05	-41.24	8337
062 23:58:59	-67.59	8338

062 00:52:38	55.65	5054
062 02:37:33	29.29	5055
062 04:22:28	2.94	5056
062 06:07:23	-23.42	5057
062 07:52:19	-49.77	5058
062 09:37:14	-76.13	5059
062 11:22:09	-102.49	5060
062 13:07:05	-128.84	5061
062 14:52:00	-155.20	5062
062 16:36:55	178.45	5063
062 18:21:50	152.09	5064
062 20:06:46	125.74	5065
062 21:51:41	99.38	5066
062 23:36:36	73.02	5067

063 01:43:52	-93.94	8339
063 03:28:46	-120.28	8340
063 05:13:39	-146.63	8341
063 06:58:33	-172.98	8342
063 08:43:26	160.67	8343
063 10:28:20	134.32	8344
063 12:13:13	107.97	8345
063 13:58:07	81.62	8346
063 15:43:00	55.27	8347
063 17:27:54	28.93	8348
063 19:12:47	2.58	8349
063 20:57:41	-23.77	8350
063 22:42:34	-50.12	8351

063 01:21:31	46.67	5068
063 03:06:27	20.31	5069
063 04:51:22	-6.04	5070
063 06:36:17	-32.40	5071
063 08:21:13	-58.75	5072
063 10:06:08	-85.11	5073
063 11:51:03	-111.47	5074
063 13:35:58	-137.82	5075
063 15:20:54	-164.18	5076
063 17:05:49	169.47	5077
063 18:50:44	143.11	5078
063 20:35:40	116.76	5079
063 22:20:35	90.40	5080

064 00:27:28	-76.47	8352
064 02:12:21	-102.82	8353
064 03:57:15	-129.16	8354
064 05:42:08	-155.51	8355
064 07:27:02	178.14	8356
064 09:11:55	151.79	8357
064 10:56:49	125.44	8358
064 12:41:42	99.09	8359
064 14:26:36	72.75	8360
064 16:11:29	46.40	8361
064 17:56:23	20.05	8362
064 19:41:16	-6.30	8363
064 21:26:10	-32.65	8364
064 23:11:03	-59.00	8365

064 00:05:30	64.04	5081
064 01:50:25	37.69	5082
064 03:35:21	11.33	5083
064 05:20:16	-15.02	5084
064 07:05:11	-41.38	5085
064 08:50:06	-67.74	5086
064 10:35:02	-94.09	5087
064 12:19:57	-120.45	5088
064 14:04:52	-146.81	5089
064 15:49:48	-173.16	5090
064 17:34:43	160.48	5091
064 19:19:38	134.13	5092
064 21:04:33	107.77	5093
064 22:49:29	81.42	5094

SATELLITE S2

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

061	00:13:00	-90.71	32038
061	01:55:00	-116.21	32039
061	03:36:59	-141.70	32040
061	05:18:59	-167.20	32041
061	07:00:58	167.31	32042
061	08:42:58	141.81	32043
061	10:24:57	116.32	32044
061	12:06:57	90.82	32045
061	13:48:56	65.33	32046
061	15:30:56	39.83	32047
061	17:12:55	14.34	32048
061	18:54:55	-11.16	32049
061	20:36:54	-36.65	32050
061	22:18:54	-62.15	32051

SATELLITE S3

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

061	01:30:20	-93.86	23128
061	03:11:32	-119.16	23129
061	04:52:44	-144.46	23130
061	06:33:56	-169.76	23131
061	08:15:08	164.94	23132
061	09:56:21	139.63	23133
061	11:37:33	114.33	23134
061	13:18:45	89.03	23135
061	14:59:57	63.73	23136
061	16:41:09	38.43	23137
061	18:22:21	13.13	23138
061	20:03:33	-12.17	23139
061	21:44:46	-37.48	23140
061	23:25:58	-62.78	23141

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

061	00:28:20	-151.70	12534
061	02:10:24	-177.22	12535
061	03:52:28	157.27	12536
061	05:34:32	131.75	12537
061	07:16:36	106.23	12538
061	08:58:39	80.73	12539
061	10:40:43	55.21	12540
061	12:22:47	29.69	12541
061	14:04:51	4.18	12542
061	15:46:55	-21.34	12543
061	17:28:58	-46.85	12544
061	19:11:02	-72.36	12545
061	20:53:06	-97.88	12546
061	22:35:10	-123.40	12547

062	00:00:53	-87.64	32052
062	01:42:53	-113.14	32053
062	03:24:52	-138.63	32054
062	05:06:52	-164.13	32055
062	06:48:51	170.38	32056
062	08:30:51	144.88	32057
062	10:12:50	119.39	32058
062	11:54:50	93.89	32059
062	13:36:49	68.40	32060
062	15:18:49	42.89	32061
062	17:00:48	17.41	32062
062	18:42:48	-8.10	32063
062	20:24:47	-33.58	32064
062	22:06:47	-59.09	32065
062	23:48:46	-84.57	32066

062	01:07:10	-88.08	23142
062	02:48:22	-113.38	23143
062	04:29:34	-138.67	23144
062	06:10:46	-163.97	23145
062	07:51:59	170.71	23146
062	09:33:11	145.41	23147
062	11:14:23	120.12	23148
062	12:55:35	94.82	23149
062	14:36:47	69.52	23150
062	16:17:59	44.22	23151
062	17:59:12	18.91	23152
062	19:40:24	-6.39	23153
062	21:21:36	-31.69	23154
062	23:02:48	-56.99	23155

062	00:17:13	-148.90	12548
062	01:59:17	-174.42	12549
062	03:41:21	160.06	12550
062	05:23:25	134.55	12551
062	07:05:29	109.03	12552
062	08:47:32	83.52	12553
062	10:29:36	58.01	12554
062	12:11:40	32.49	12555
062	13:53:44	6.97	12556
062	15:35:48	-18.55	12557
062	17:17:51	-44.05	12558
062	18:59:55	-69.57	12559
062	20:41:59	-95.08	12560
062	22:24:03	-120.60	12561

063	01:30:46	-110.08	32067
063	03:12:45	-135.57	32068
063	04:54:45	-161.07	32069
063	06:36:44	173.44	32070
063	08:18:44	147.94	32071
063	10:00:43	122.45	32072
063	11:42:43	96.95	32073
063	13:24:42	71.46	32074
063	15:06:42	45.96	32075
063	16:48:41	20.47	32076
063	18:30:41	-5.03	32077
063	20:12:40	-30.52	32078
063	21:54:40	-56.02	32079
063	23:36:39	-81.51	32080

063	00:44:00	-82.29	23156
063	02:25:12	-107.59	23157
063	04:06:25	-132.90	23158
063	05:47:37	-158.20	23159
063	07:28:49	176.50	23160
063	09:10:01	151.20	23161
063	10:51:13	125.90	23162
063	12:32:25	100.60	23163
063	14:13:38	75.29	23164
063	15:54:50	49.99	23165
063	17:36:02	24.69	23166
063	19:17:14	-6.61	23167
063	20:58:26	-25.91	23168
063	22:39:38	-51.21	23169

063	00:06:07	-146.12	12562
063	01:48:10	-171.62	12563
063	03:30:14	162.86	12564
063	05:12:18	137.34	12565
063	06:54:22	111.82	12566
063	08:36:26	86.31	12567
063	10:18:29	60.80	12568
063	12:00:33	35.29	12569
063	13:42:37	9.77	12570
063	15:24:41	-15.75	12571
063	17:06:45	-41.27	12572
063	18:48:48	-66.77	12573
063	20:30:52	-92.29	12574
063	22:12:56	-117.81	12575
063	23:55:00	-143.32	12576

064	01:18:39	-107.01	32081
064	03:00:38	-132.50	32082
064	04:42:38	-158.00	32083
064	06:24:37	176.51	32084
064	08:06:37	151.01	32085
064	09:48:36	125.52	32086
064	11:30:36	100.02	32087
064	13:12:35	74.53	32088
064	14:54:35	49.03	32089
064	16:36:34	23.54	32090
064	18:18:34	-1.96	32091
064	20:00:33	-27.45	32092
064	21:42:33	-52.95	32093
064	23:24:32	-78.44	32094

064	00:20:51	-76.52	23170
064	02:02:03	-101.82	23171
064	03:43:15	-127.12	23172
064	05:24:27	-152.42	23173
064	07:05:39	-177.72	23174
064	08:46:51	156.99	23175
064	10:28:04	131.67	23176
064	12:09:16	106.37	23177
064	13:50:28	81.08	23178
064	15:31:40	55.78	23179
064	17:12:52	30.48	23180
064	18:54:04	5.18	23181
064	20:35:17	-20.13	23182
064	22:16:29	-45.43	23183
064	23:57:41	-70.73	23184

064	01:37:04	-168.84	12577
064	03:19:07	165.66	12578
064	05:01:11	140.14	12579
064	06:43:15	114.62	12580
064	08:25:19	89.10	12581
064	10:07:23	63.59	12582
064	11:49:26	38.08	12583
064	13:31:30	12.57	12584
064	15:13:34	-12.95	12585
064	16:55:38	-38.47	12586
064	18:37:42	-63.99	12587
064	20:19:45	-89.49	12588
064	22:01:49	-115.01	12589
064	23:43:53	-140.53	12590

SATELLITE C4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

065 00:55:57	-85.34	8366
065 02:40:50	-111.69	8367
065 04:25:44	-138.04	8368
065 06:10:37	-164.39	8369
065 07:55:31	169.26	8370
065 09:40:24	142.91	8371
065 11:25:18	116.57	8372
065 13:10:11	90.22	8373
065 14:55:05	63.87	8374
065 16:39:58	37.52	8375
065 18:24:52	11.17	8376
065 20:09:45	-15.18	8377
065 21:54:39	-41.53	8378
065 23:39:32	-67.88	8379

SATELLITE C5

Ascending Node Predictions
Predicting for 185 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

065 00:34:24	55.06	5095
065 02:19:19	28.70	5096
065 04:04:15	2.35	5097
065 05:49:10	-24.01	5098
065 07:34:05	-50.36	5099
065 09:19:00	-76.72	5100
065 11:03:56	-103.07	5101
065 12:48:51	-129.43	5102
065 14:33:46	-155.79	5103
065 16:18:41	177.86	5104
065 18:03:37	151.50	5105
065 19:48:32	125.15	5106
065 21:33:27	98.79	5107
065 23:18:23	72.44	5108

066 01:24:26	-94.22	8380
066 03:09:19	-120.57	8381
066 04:54:13	-146.92	8382
066 06:39:06	-173.27	8383
066 08:24:00	160.38	8384
066 10:08:53	134.03	8385
066 11:53:47	107.69	8386
066 13:38:40	81.34	8387
066 15:23:34	54.99	8388
066 17:08:27	28.64	8389
066 18:53:21	2.29	8390
066 20:38:14	-24.06	8391
066 22:23:08	-50.40	8392

066 01:03:18	46.08	5109
066 02:48:13	19.72	5110
066 04:33:08	-6.63	5111
066 06:18:04	-32.99	5112
066 08:02:59	-59.34	5113
066 09:47:54	-85.70	5114
066 11:32:50	-112.05	5115
066 13:17:45	-138.41	5116
066 15:02:40	-164.77	5117
066 16:47:35	168.88	5118
066 18:32:31	142.52	5119
066 20:17:26	116.17	5120
066 22:02:21	89.81	5121
066 23:47:16	63.45	5122

067 00:08:01	-76.75	8393
067 01:52:55	-103.10	8394
067 03:37:48	-129.45	8395
067 05:22:42	-155.80	8396
067 07:07:35	177.85	8397
067 08:52:29	151.51	8398
067 10:37:22	125.16	8399
067 12:22:16	98.81	8400
067 14:07:09	72.46	8401
067 15:52:03	46.11	8402
067 17:36:56	19.76	8403
067 19:21:50	-6.58	8404
067 21:06:43	-32.93	8405
067 22:51:37	-59.28	8406

067 01:32:12	37.10	5123
067 03:17:07	10.74	5124
067 05:02:02	-15.62	5125
067 06:46:58	-41.97	5126
067 08:31:53	-68.33	5127
067 10:16:48	-94.68	5128
067 12:01:43	-121.04	5129
067 13:46:39	-147.39	5130
067 15:31:34	-173.75	5131
067 17:16:29	159.89	5132
067 19:01:25	133.54	5133
067 20:46:20	107.18	5134
067 22:31:15	80.83	5135

068 00:36:30	-85.63	8407
068 02:21:24	-111.98	8408
068 04:06:17	-138.33	8409
068 05:51:11	-164.68	8410
068 07:36:04	168.98	8411
068 09:20:58	142.63	8412
068 11:05:51	116.28	8413
068 12:50:45	89.93	8414
068 14:35:38	63.58	8415
068 16:20:32	37.23	8416
068 18:05:25	10.88	8417
068 19:50:19	-15.46	8418
068 21:35:12	-41.81	8419
068 23:20:06	-68.16	8420

068 00:16:10	54.47	5136
068 02:01:06	28.12	5137
068 03:46:01	1.76	5138
068 05:30:56	-24.60	5139
068 07:15:52	-50.95	5140
068 09:00:47	-77.31	5141
068 10:45:42	-103.66	5142
068 12:30:37	-130.02	5143
068 14:15:33	-156.37	5144
068 16:00:28	177.27	5145
068 17:45:23	150.91	5146
068 19:30:18	124.56	5147
068 21:15:14	98.20	5148
068 23:00:09	71.85	5149

SATELLITE S2
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

 065 01:06:32 -103.94 32095
 065 02:48:31 -129.43 32096
 065 04:30:31 -154.93 32097
 065 06:12:30 179.58 32098
 065 07:54:30 154.07 32099
 065 09:36:29 128.59 32100
 065 11:18:29 103.08 32101
 065 13:00:28 77.60 32102
 065 14:42:28 52.09 32103
 065 16:24:27 26.61 32104
 065 18:06:27 1.10 32105
 065 19:48:26 -24.39 32106
 065 21:30:26 -49.89 32107
 065 23:12:25 -75.38 32108

SATELLITE S3
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

 065 01:38:53 -96.03 23185
 065 03:20:05 -121.33 23186
 065 05:01:17 -146.63 23187
 065 06:42:29 -171.93 23188
 065 08:23:42 162.76 23189
 065 10:04:54 137.46 23190
 065 11:46:06 112.16 23191
 065 13:27:18 86.86 23192
 065 15:08:30 61.56 23193
 065 16:49:42 36.26 23194
 065 18:30:55 10.95 23195
 065 20:12:07 -14.35 23196
 065 21:53:19 -39.65 23197
 065 23:34:31 -64.95 23198

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) **E LONG** **ORBIT**
 day hr mn sc deg dg

 065 01:25:57 -166.04 12591
 065 03:08:01 168.44 12592
 065 04:50:04 142.94 12593
 065 06:32:08 117.42 12594
 065 08:14:12 91.90 12595
 065 09:56:16 66.38 12596
 065 11:38:20 40.87 12597
 065 13:20:23 15.36 12598
 065 15:02:27 -10.16 12599
 065 16:44:31 -35.67 12600
 065 18:26:35 -61.19 12601
 065 20:08:39 -86.71 12602
 065 21:50:42 -112.21 12603
 065 23:32:46 -137.73 12604

 066 00:54:25 -100.88 32109
 066 02:36:24 -126.37 32110
 066 04:18:24 -151.87 32111
 066 06:00:23 -177.36 32112
 066 07:42:23 157.14 32113
 066 09:24:22 131.65 32114
 066 11:06:22 106.15 32115
 066 12:48:21 80.66 32116
 066 14:30:21 55.16 32117
 066 16:12:20 29.67 32118
 066 17:54:20 4.17 32119
 066 19:36:19 -21.32 32120
 066 21:18:19 -46.82 32121
 066 23:00:18 -72.31 32122

 066 01:15:43 -90.25 23199
 066 02:56:55 -115.55 23200
 066 04:38:08 -140.86 23201
 066 06:19:20 -166.16 23202
 066 08:00:32 168.54 23203
 066 09:41:44 143.24 23204
 066 11:22:56 117.95 23205
 066 13:04:08 92.65 23206
 066 14:45:21 67.33 23207
 066 16:26:33 42.04 23208
 066 18:07:45 16.74 23209
 066 19:48:57 -8.56 23210
 066 21:30:09 -33.86 23211
 066 23:11:21 -59.16 23212

 066 01:14:50 -163.25 12605
 066 02:56:54 171.24 12606
 066 04:38:58 145.72 12607
 066 06:21:01 120.21 12608
 066 08:03:05 94.70 12609
 066 09:45:09 69.18 12610
 066 11:27:13 43.66 12611
 066 13:09:17 18.14 12612
 066 14:51:20 -7.36 12613
 066 16:33:24 -32.88 12614
 066 18:15:28 -58.39 12615
 066 19:57:32 -83.91 12616
 066 21:39:36 -109.43 12617
 066 23:21:39 -134.93 12618

 067 00:42:18 -97.81 32123
 067 02:24:17 -123.30 32124
 067 04:06:17 -148.80 32125
 067 05:48:16 -174.29 32126
 067 07:30:16 160.21 32127
 067 09:12:15 134.72 32128
 067 10:54:15 109.22 32129
 067 12:36:14 83.73 32130
 067 14:18:14 58.23 32131
 067 16:00:13 32.74 32132
 067 17:42:13 7.24 32133
 067 19:24:12 -18.25 32134
 067 21:06:12 -43.75 32135
 067 22:48:11 -69.24 32136

 067 00:52:34 -84.47 23213
 067 02:33:46 -109.77 23214
 067 04:14:58 -135.07 23215
 067 05:56:10 -160.37 23216
 067 07:37:22 174.33 23217
 067 09:18:34 149.03 23218
 067 10:59:47 123.72 23219
 067 12:40:59 98.42 23220
 067 14:22:11 73.12 23221
 067 16:03:23 47.82 23222
 067 17:44:35 22.52 23223
 067 19:25:47 -2.78 23224
 067 21:07:00 -28.09 23225
 067 22:48:12 -53.39 23226

 067 01:03:43 -160.45 12619
 067 02:45:47 174.03 12620
 067 04:27:51 148.52 12621
 067 06:09:55 123.00 12622
 067 07:51:58 97.49 12623
 067 09:34:02 71.98 12624
 067 11:16:06 46.46 12625
 067 12:58:10 20.94 12626
 067 14:40:14 -4.58 12627
 067 16:22:17 -30.08 12628
 067 18:04:21 -55.60 12629
 067 19:46:25 -81.11 12630
 067 21:28:29 -106.63 12631
 067 23:10:33 -132.15 12632

 068 00:30:11 -94.75 32137
 068 02:12:10 -120.23 32138
 068 03:54:10 -145.74 32139
 068 05:36:09 -171.22 32140
 068 07:18:09 163.27 32141
 068 09:00:08 137.79 32142
 068 10:42:08 112.28 32143
 068 12:24:07 86.79 32144
 068 14:06:07 61.29 32145
 068 15:48:06 35.80 32146
 068 17:30:06 10.30 32147
 068 19:12:05 -15.19 32148
 068 20:54:05 -40.69 32149
 068 22:36:04 -66.18 32150

 068 00:29:24 -78.69 23227
 068 02:10:36 -103.99 23228
 068 03:51:48 -129.29 23229
 068 05:33:00 -154.59 23230
 068 07:14:13 -179.90 23231
 068 08:55:25 154.80 23232
 068 10:36:37 129.50 23233
 068 12:17:49 104.20 23234
 068 13:59:01 78.91 23235
 068 15:40:13 53.61 23236
 068 17:21:26 28.29 23237
 068 19:02:38 3.00 23238
 068 20:43:50 -22.30 23239
 068 22:25:02 -47.60 23240

 068 00:52:36 -157.65 12633
 068 02:34:40 176.83 12634
 068 04:16:44 151.31 12635
 068 05:58:48 125.79 12636
 068 07:40:52 100.28 12637
 068 09:22:55 74.77 12638
 068 11:04:59 49.26 12639
 068 12:47:03 23.74 12640
 068 14:29:07 -1.78 12641
 068 16:11:11 -27.30 12642
 068 17:53:14 -52.80 12643
 068 19:35:18 -78.32 12644
 068 21:17:22 -103.84 12645
 068 22:59:26 -129.35 12646

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

069 01:04:59	-94.51	8421
069 02:49:53	-120.86	8422
069 04:34:46	-147.21	8423
069 06:19:40	-173.55	8424
069 08:04:33	160.10	8425
069 09:49:27	133.75	8426
069 11:34:20	107.40	8427
069 13:19:14	81.05	8428
069 15:04:07	54.70	8429
069 16:49:01	28.36	8430
069 18:33:54	2.01	8431
069 20:18:48	-24.34	8432
069 22:03:41	-50.69	8433
069 23:48:35	-77.04	8434

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

069 00:45:04	45.49	5150
069 02:30:00	19.13	5151
069 04:14:55	-7.22	5152
069 05:59:50	-33.58	5153
069 07:44:45	-59.94	5154
069 09:29:41	-86.29	5155
069 11:14:36	-112.65	5156
069 12:59:31	-139.00	5157
069 14:44:27	-165.36	5158
069 16:29:22	168.29	5159
069 18:14:17	141.93	5160
069 19:59:12	115.57	5161
069 21:44:08	89.22	5162
069 23:29:03	62.86	5163

070 01:33:28	-103.39	8435
070 03:18:22	-129.73	8436
070 05:03:15	-156.08	8437
070 06:48:09	177.57	8438
070 08:33:02	151.22	8439
070 10:17:56	124.87	8440
070 12:02:49	98.52	8441
070 13:47:43	72.18	8442
070 15:32:36	45.83	8443
070 17:17:30	19.48	8444
070 19:02:23	-6.87	8445
070 20:47:17	-33.22	8446
070 22:32:10	-59.57	8447

070 01:13:58	36.51	5164
070 02:58:54	10.15	5165
070 04:43:49	-16.20	5166
070 06:28:44	-42.56	5167
070 08:13:39	-68.92	5168
070 09:58:35	-95.27	5169
070 11:43:30	-121.63	5170
070 13:28:25	-147.98	5171
070 15:13:21	-174.34	5172
070 16:58:16	159.31	5173
070 18:43:11	132.95	5174
070 20:28:06	106.59	5175
070 22:13:02	80.24	5176
070 23:57:57	53.88	5177

071 00:17:04	-85.92	8448
071 02:01:57	-112.27	8449
071 03:46:51	-138.61	8450
071 05:31:44	-164.96	8451
071 07:16:38	168.69	8452
071 09:01:31	142.34	8453
071 10:46:25	115.99	8454
071 12:31:18	89.64	8455
071 14:16:12	63.30	8456
071 16:01:05	36.95	8457
071 17:45:59	10.60	8458
071 19:30:52	-15.75	8459
071 21:15:46	-42.10	8460
071 23:00:39	-68.45	8461

071 01:42:52	27.52	5178
071 03:27:47	1.17	5179
071 05:12:43	-25.19	5180
071 06:57:38	-51.54	5181
071 08:42:33	-77.90	5182
071 10:27:29	-104.25	5183
071 12:12:24	-130.61	5184
071 13:57:19	-156.97	5185
071 15:42:14	176.68	5186
071 17:27:10	150.32	5187
071 19:12:05	123.97	5188
071 20:57:00	97.61	5189
071 22:41:56	71.26	5190

072 00:45:33	-94.79	8462
072 02:30:26	-121.14	8463
072 04:15:20	-147.49	8464
072 06:00:13	-173.84	8465
072 07:45:07	159.81	8466
072 09:30:00	133.46	8467
072 11:14:54	107.12	8468
072 12:59:47	80.77	8469
072 14:44:41	54.42	8470
072 16:29:34	28.07	8471
072 18:14:28	1.72	8472
072 19:59:21	-24.63	8473
072 21:44:15	-50.97	8474
072 23:29:08	-77.32	8475

072 00:26:51	44.90	5191
072 02:11:46	18.54	5192
072 03:56:41	-7.81	5193
072 05:41:37	-34.17	5194
072 07:26:32	-60.52	5195
072 09:11:27	-86.88	5196
072 10:56:23	-113.23	5197
072 12:41:18	-139.59	5198
072 14:26:13	-165.95	5199
072 16:11:08	167.70	5200
072 17:56:04	141.34	5201
072 19:40:59	114.98	5202
072 21:25:54	88.63	5203
072 23:10:50	62.27	5204

SATELLITE S2				SATELLITE S3				SATELLITE S4				
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions				
Predicting for 184 days				Predicting for 184 days				Predicting for 183 days				
TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	TIME (GMT)	E LONG	ORBIT	day	hr	mn sc	
day	hr	mn sc	deg dg	day	hr	mn sc	deg dg	day	hr	mn sc	deg dg	
069 00:18:04	-91.68	32151	069 00:06:14	-72.90	23241	069 00:41:30	-154.87	12647				
069 02:00:03	-117.17	32152	069 01:47:26	-98.20	23242	069 02:23:33	179.63	12648				
069 03:42:03	-142.67	32153	069 03:28:39	-123.51	23243	069 04:05:37	154.11	12649				
069 05:24:02	-168.16	32154	069 05:09:51	-148.81	23244	069 05:47:41	128.59	12650				
069 07:06:02	166.34	32155	069 06:51:03	-174.11	23245	069 07:29:45	103.07	12651				
069 08:48:01	140.85	32156	069 08:32:15	160.59	23246	069 09:11:49	77.56	12652				
069 10:30:01	115.35	32157	069 10:13:27	135.29	23247	069 10:53:52	52.05	12653				
069 12:12:00	89.86	32158	069 11:54:39	109.99	23248	069 12:35:56	26.54	12654				
069 13:54:00	64.36	32159	069 13:35:52	84.68	23249	069 14:18:00	1.02	12655				
069 15:35:59	38.87	32160	069 15:17:04	59.38	23250	069 16:00:04	-24.50	12656				
069 17:17:59	13.37	32161	069 16:58:16	34.08	23251	069 17:42:08	-50.02	12657				
069 18:59:58	-12.12	32162	069 18:39:28	8.78	23252	069 19:24:11	-75.52	12658				
069 20:41:58	-37.62	32163	069 20:20:40	-16.52	23253	069 21:06:15	-101.04	12659				
069 22:23:57	-63.11	32164	069 22:01:52	-41.82	23254	069 22:48:19	-126.56	12660				
			069 23:43:05	-67.13	23255							
070 00:05:57	-88.61	32165	070 01:24:17	-92.43	23256	070 00:30:23	-152.07	12661				
070 01:47:56	-114.10	32166	070 03:05:29	-117.73	23257	070 02:12:27	-177.59	12662				
070 03:29:56	-139.60	32167	070 04:46:41	-143.03	23258	070 03:54:30	156.91	12663				
070 05:11:55	-165.09	32168	070 06:27:53	-168.33	23259	070 05:36:34	131.39	12664				
070 06:53:55	169.41	32169	070 08:09:05	166.37	23260	070 07:18:38	105.87	12665				
070 08:35:54	143.92	32170	070 09:50:13	141.06	23261	070 09:00:42	80.35	12666				
070 10:17:54	118.42	32171	070 11:31:30	115.76	23262	070 10:42:46	54.84	12667				
070 11:59:53	92.93	32172	070 13:12:42	90.46	23263	070 12:24:49	29.33	12668				
070 13:41:53	67.43	32173	070 14:53:54	65.17	23264	070 14:06:53	3.81	12669				
070 15:23:52	41.94	32174	070 16:35:06	39.87	23265	070 15:48:57	-21.70	12670				
070 17:05:52	16.44	32175	070 18:16:18	14.57	23266	070 17:31:01	-47.22	12671				
070 18:47:51	-9.05	32176	070 19:57:31	-10.75	23267	070 19:13:05	-72.74	12672				
070 20:29:51	-34.56	32177	070 21:38:43	-36.04	23268	070 20:55:08	-98.24	12673				
070 22:11:50	-60.04	32178	070 23:19:55	-61.34	23269	070 22:37:12	-123.76	12674				
070 23:53:50	-85.55	32179										
071 01:35:49	-111.03	32180	071 01:01:07	-86.64	23270	071 00:19:16	-149.23	12675				
071 03:17:49	-136.54	32181	071 02:42:19	-111.94	23271	071 02:01:20	-174.79	12676				
071 04:59:48	-162.02	32182	071 04:23:31	-137.24	23272	071 03:43:24	159.69	12677				
071 06:41:48	172.47	32183	071 06:04:44	-162.55	23273	071 05:25:28	134.17	12678				
071 08:23:47	146.98	32184	071 07:45:56	172.15	23274	071 07:07:31	108.67	12679				
071 10:05:47	121.48	32185	071 09:27:08	146.85	23275	071 08:49:35	83.15	12680				
071 11:47:46	95.99	32186	071 11:08:20	121.55	23276	071 10:31:39	57.63	12681				
071 13:29:46	70.49	32187	071 12:49:32	96.25	23277	071 12:13:43	32.12	12682				
071 15:11:45	45.00	32188	071 14:30:44	70.95	23278	071 13:55:47	6.60	12683				
071 16:53:45	19.50	32189	071 16:11:57	45.64	23279	071 15:37:50	-18.91	12684				
071 18:35:44	-5.99	32190	071 17:53:09	20.34	23280	071 17:19:54	-44.42	12685				
071 20:17:44	-31.49	32191	071 19:34:21	-4.96	23281	071 19:01:58	-69.94	12686				
071 21:59:43	-56.98	32192	071 21:15:33	-30.26	23282	071 20:44:02	-95.46	12687				
071 23:41:43	-82.48	32193	071 22:56:45	-55.56	23283	071 22:26:06	-120.98	12688				
072 01:23:42	-107.97	32194	072 00:37:57	-80.86	23284	072 00:08:09	-146.48	12689				
072 03:05:42	-133.47	32195	072 02:19:10	-106.17	23285	072 01:50:13	-172.00	12690				
072 04:47:41	-158.96	32196	072 04:00:22	-131.47	23286	072 03:32:17	162.49	12691				
072 06:29:41	175.54	32197	072 05:41:34	-156.77	23287	072 05:14:21	136.97	12692				
072 08:11:40	150.05	32198	072 07:22:46	177.93	23288	072 06:56:25	111.45	12693				
072 09:53:40	124.55	32199	072 09:03:58	152.63	23289	072 08:38:28	85.95	12694				
072 11:35:39	99.06	32200	072 10:45:10	127.34	23290	072 10:20:32	60.43	12695				
072 13:17:39	73.56	32201	072 12:26:23	102.02	23291	072 12:02:36	34.91	12696				
072 14:59:38	48.07	32202	072 14:07:35	76.72	23292	072 13:44:40	9.40	12697				
072 16:41:38	22.57	32203	072 15:48:47	51.42	23293	072 15:26:44	-16.12	12698				
072 18:23:37	-2.92	32204	072 17:29:59	26.13	23294	072 17:08:47	-41.63	12699				
072 20:05:37	-28.42	32205	072 19:11:11	.83	23295	072 18:50:51	-67.14	12700				
072 21:47:36	-53.91	32206	072 20:52:23	-24.47	23296	072 20:32:55	-92.66	12701				
072 23:29:36	-79.41	32207	072 22:33:36	-49.78	23297	072 22:14:59	-118.18	12702				
						072 23:57:03	-143.70	12703				

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

073 01:14:02	-103.67	8476
073 02:58:55	-130.02	8477
073 04:43:49	-156.37	8478
073 06:28:42	177.28	8479
073 08:13:36	150.94	8480
073 09:58:29	124.59	8481
073 11:43:23	98.24	8482
073 13:28:16	71.89	8483
073 15:13:10	45.54	8484
073 16:58:03	19.19	8485
073 18:42:57	-7.16	8486
073 20:27:50	-33.51	8487
073 22:12:44	-59.85	8488
073 23:57:37	-86.20	8489

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

073 00:55:45	35.92	5205
073 02:40:40	9.56	5206
073 04:25:35	-16.80	5207
073 06:10:31	-43.15	5208
073 07:55:26	-69.51	5209
073 09:40:21	-95.86	5210
073 11:25:17	-122.22	5211
073 13:10:12	-148.57	5212
073 14:55:07	-174.93	5213
073 16:40:02	158.71	5214
073 18:24:58	132.36	5215
073 20:09:53	106.00	5216
073 21:54:48	79.65	5217
073 23:39:44	53.29	5218

074 01:42:31	-112.55	8490
074 03:27:24	-138.90	8491
074 05:12:18	-165.25	8492
074 06:57:11	168.40	8493
074 08:42:05	142.06	8494
074 10:26:58	115.71	8495
074 12:11:52	89.36	8496
074 13:56:45	63.01	8497
074 15:41:39	36.66	8498
074 17:26:32	10.31	8499
074 19:11:26	-16.03	8500
074 20:56:19	-42.38	8501
074 22:41:13	-68.73	8502
074 01:24:39	26.94	5219
074 03:09:34	.58	5220
074 04:54:29	-25.78	5221
074 06:39:25	-52.13	5222
074 08:24:20	-78.49	5223
074 10:09:15	-104.84	5224
074 11:54:11	-131.20	5225
074 13:39:06	-157.56	5226
074 15:24:01	176.09	5227
074 17:08:56	149.73	5228
074 18:53:52	123.38	5229
074 20:38:47	97.02	5230
074 22:23:42	70.66	5231

075 00:26:06	-95.08	8503
075 02:11:00	-121.43	8504
075 03:55:53	-147.78	8505
075 05:40:47	-174.12	8506
075 07:25:40	159.53	8507
075 09:10:34	133.18	8508
075 10:55:27	106.83	8509
075 12:40:21	80.48	8510
075 14:25:14	54.13	8511
075 16:10:08	27.79	8512
075 17:55:01	1.44	8513
075 19:39:55	-24.91	8514
075 21:24:48	-51.26	8515
075 23:09:42	-77.61	8516
075 00:08:38	44.31	5232
075 01:53:33	17.95	5233
075 03:38:28	-8.40	5234
075 05:23:23	-34.76	5235
075 07:08:19	-61.11	5236
075 08:53:14	-87.47	5237
075 10:38:09	-113.83	5238
075 12:23:05	-140.18	5239
075 14:08:00	-166.54	5240
075 15:52:55	167.11	5241
075 17:37:50	140.75	5242
075 19:22:46	114.39	5243
075 21:07:41	88.04	5244
075 22:52:36	61.68	5245

076 00:54:35	-103.96	8517
076 02:39:29	-130.30	8518
076 04:24:22	-156.65	8519
076 06:09:16	177.00	8520
076 07:54:09	150.65	8521
076 09:39:03	124.30	8522
076 11:23:56	97.95	8523
076 13:08:50	71.60	8524
076 14:53:43	45.26	8525
076 16:38:37	18.91	8526
076 18:23:30	-7.44	8527
076 20:08:24	-33.79	8528
076 21:53:17	-60.14	8529
076 23:38:11	-86.49	8530
076 00:37:32	35.33	5246
076 02:22:27	8.97	5247
076 04:07:22	-17.39	5248
076 05:52:17	-43.74	5249
076 07:37:13	-70.10	5250
076 09:22:08	-96.45	5251
076 11:07:03	-122.81	5252
076 12:51:59	-149.16	5253
076 14:36:54	-175.52	5254
076 16:21:49	158.12	5255
076 18:06:44	131.77	5256
076 19:51:40	105.41	5257
076 21:36:35	79.06	5258
076 23:21:30	52.70	5259

SATELLITE S2				SATELLITE S3				SATELLITE S4			
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions			
Predicting for 184 days				Predicting for 184 days				Predicting for 183 days			
TIME (GMT)	E	LONG	ORBIT	TIME (GMT)	E	LONG	ORBIT	TIME (GMT)	E	LONG	ORBIT
day	hr	mn	sc	day	hr	mn	sc	day	hr	mn	sc
deg	dg	deg	dg	deg	dg	deg	dg	deg	dg	deg	dg
073 01:11:35	-104.90	32208	073 00:14:48	-75.08	23298	073 01:39:06	-169.20	12704			
073 02:53:35	-130.40	32209	073 01:56:00	-100.38	23299	073 03:21:10	165.28	12705			
073 04:35:34	-155.89	32210	073 03:37:12	-125.68	23300	073 05:03:14	139.77	12706			
073 06:17:34	178.61	32211	073 05:18:24	-150.98	23301	073 06:45:18	114.25	12707			
073 07:59:33	153.12	32212	073 06:59:36	-176.28	23302	073 08:27:22	88.73	12708			
073 09:41:33	127.62	32213	073 08:40:49	158.41	23303	073 10:09:25	63.23	12709			
073 11:23:32	102.13	32214	073 10:22:01	133.11	23304	073 11:51:29	37.71	12710			
073 13:05:32	76.63	32215	073 12:03:13	107.81	23305	073 13:32:33	12.19	12711			
073 14:47:31	51.14	32216	073 13:44:25	82.51	23306	073 15:15:37	-13.33	12712			
073 16:29:31	25.63	32217	073 15:25:37	57.21	23307	073 16:57:41	-38.84	12713			
073 18:11:30	.15	32218	073 17:06:49	31.91	23308	073 18:39:44	-64.35	12714			
073 19:53:30	-25.36	32219	073 18:48:02	6.60	23309	073 20:21:48	-89.86	12715			
073 21:35:29	-50.84	32220	073 20:29:14	-18.70	23310	073 22:03:52	-115.38	12716			
073 23:17:29	-76.35	32221	073 22:10:26	-44.00	23311	073 23:45:56	-140.90	12717			
			073 23:51:38	-69.30	23312						
074 00:59:28	-101.83	32222	074 01:32:50	-94.60	23313	074 01:28:00	-166.42	12718			
074 02:41:28	-127.34	32223	074 03:14:02	-119.90	23314	074 03:10:03	168.08	12719			
074 04:23:27	-152.83	32224	074 04:55:15	-145.21	23315	074 04:52:07	142.56	12720			
074 06:05:27	-178.33	32225	074 06:36:27	-170.51	23316	074 06:34:11	117.05	12721			
074 07:47:26	156.18	32226	074 08:17:39	164.19	23317	074 08:16:15	91.53	12722			
074 09:29:26	130.68	32227	074 09:58:51	138.89	23318	074 09:58:19	66.01	12723			
074 11:11:26	105.18	32228	074 11:40:03	113.60	23319	074 11:40:22	40.51	12724			
074 12:53:25	79.69	32229	074 13:21:15	88.30	23320	074 13:22:26	14.99	12725			
074 14:35:25	54.19	32230	074 15:02:28	62.98	23321	074 15:04:30	-10.53	12726			
074 16:17:24	28.70	32231	074 16:43:40	37.68	23322	074 16:46:34	-36.05	12727			
074 17:59:24	3.20	32232	074 18:24:52	12.39	23323	074 18:28:38	-61.56	12728			
074 19:41:23	-22.29	32233	074 20:06:04	-12.91	23324	074 20:10:41	-87.07	12729			
074 21:23:23	-47.79	32234	074 21:47:16	-38.21	23325	074 21:52:45	-112.58	12730			
074 23:05:22	-73.28	32235	074 23:28:28	-63.51	23326	074 23:34:49	-138.10	12731			
075 00:47:22	-98.78	32236	075 01:09:41	-88.82	23327	075 01:16:53	-163.62	12732			
075 02:29:21	-124.27	32237	075 02:50:53	-114.12	23328	075 02:58:57	170.86	12733			
075 04:11:21	-149.77	32238	075 04:32:05	-139.42	23329	075 04:41:00	145.36	12734			
075 05:53:20	-175.26	32239	075 06:13:17	-164.72	23330	075 06:23:04	119.84	12735			
075 07:35:20	159.24	32240	075 07:54:29	169.98	23331	075 08:05:08	94.32	12736			
075 09:17:19	133.75	32241	075 09:35:41	144.68	23332	075 09:47:12	68.81	12737			
075 10:59:19	108.25	32242	075 11:16:54	119.37	23333	075 11:29:16	43.29	12738			
075 12:41:18	82.76	32243	075 12:58:06	94.07	23334	075 13:11:19	17.79	12739			
075 14:23:18	57.26	32244	075 14:39:18	68.77	23335	075 14:53:23	-7.73	12740			
075 16:05:17	31.77	32245	075 16:20:30	43.47	23336	075 16:35:27	-33.25	12741			
075 17:47:17	6.27	32246	075 18:01:42	18.17	23337	075 18:17:31	-58.77	12742			
075 19:29:16	-19.22	32247	075 19:42:54	-7.13	23338	075 19:59:35	-84.28	12743			
075 21:11:16	-44.72	32248	075 21:24:07	-32.44	23339	075 21:41:38	-109.79	12744			
075 22:53:15	-70.21	32249	075 23:05:19	-57.74	23340	075 23:23:42	-135.30	12745			
076 00:35:15	-95.71	32250	076 00:46:31	-83.04	23341	076 01:05:46	-160.82	12746			
076 02:17:14	-121.20	32251	076 02:27:43	-108.34	23342	076 02:47:50	173.66	12747			
076 03:59:14	-146.71	32252	076 04:08:55	-133.64	23343	076 04:29:54	148.14	12748			
076 05:41:13	-172.19	32253	076 05:50:07	-158.94	23344	076 06:11:57	122.64	12749			
076 07:23:13	162.30	32254	076 07:31:20	175.75	23345	076 07:54:01	97.12	12750			
076 09:05:12	136.82	32255	076 09:12:32	150.45	23346	076 09:36:05	71.60	12751			
076 10:47:12	111.31	32256	076 10:53:44	125.15	23347	076 11:18:09	46.09	12752			
076 12:29:11	85.83	32257	076 12:34:56	99.86	23348	076 13:00:13	20.57	12753			
076 14:11:11	60.32	32258	076 14:16:08	74.56	23349	076 14:42:17	-4.95	12754			
076 15:53:10	34.83	32259	076 15:57:20	49.26	23350	076 16:24:20	-30.45	12755			
076 17:35:10	9.33	32260	076 17:38:33	23.94	23351	076 18:06:24	-55.97	12756			
076 19:17:09	-16.16	32261	076 19:19:45	-1.35	23352	076 19:48:28	-81.49	12757			
076 20:59:09	-41.66	32262	076 21:00:57	-26.65	23353	076 21:30:32	-107.00	12758			
076 22:41:08	-67.15	32263	076 22:42:09	-51.95	23354	076 23:12:36	-132.52	12759			

SATELLITE C4**Ascending Node Predictions****Predicting for 183 days**

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

077 01:23:04	-112.84	8531
077 03:07:58	-139.18	8532
077 04:52:51	-165.53	8533
077 06:37:45	168.12	8534
077 08:22:38	141.77	8535
077 10:07:32	115.42	8536
077 11:52:25	89.07	8537
077 13:37:19	62.73	8538
077 15:22:12	36.38	8539
077 17:07:06	10.03	8540
077 18:51:59	-16.32	8541
077 20:36:53	-42.67	8542
077 22:21:46	-69.02	8543

SATELLITE C5**Ascending Node Predictions****Predicting for 185 days**

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

077 01:06:26	26.35	5260
077 02:51:21	-.01	5261
077 04:36:16	-26.37	5262
077 06:21:11	-52.72	5263
077 08:06:07	-79.08	5264
077 09:51:02	-105.44	5265
077 11:35:57	-131.79	5266
077 13:20:53	-158.15	5267
077 15:05:48	175.50	5268
077 16:50:43	149.14	5269
077 18:35:39	122.79	5270
077 20:20:34	96.43	5271
077 22:05:29	70.07	5272
077 23:50:24	43.72	5273

078 00:06:40	-95.36	8544
078 01:51:33	-121.71	8545
078 03:36:27	-148.06	8546
078 05:21:20	-174.41	8547
078 07:06:14	159.24	8548
078 08:51:07	132.89	8549
078 10:36:01	106.55	8550
078 12:20:54	80.20	8551
078 14:05:48	53.85	8552
078 15:50:41	27.50	8553
078 17:35:35	1.15	8554
078 19:20:28	-25.20	8555
078 21:05:22	-51.54	8556
078 22:50:15	-77.89	8557

078 01:35:20	17.36	5274
078 03:20:15	-8.99	5275
078 05:05:10	-35.35	5276
078 06:50:06	-61.70	5277
078 08:35:01	-88.06	5278
078 10:19:56	-114.42	5279
078 12:04:51	-140.77	5280
078 13:49:47	-167.13	5281
078 15:34:42	166.51	5282
078 17:19:37	140.16	5283
078 19:04:33	113.80	5284
078 20:49:28	87.45	5285
078 22:34:23	61.09	5286

079 00:35:09	-104.24	8558
079 02:20:02	-130.59	8559
079 04:04:56	-156.94	8560
079 05:49:49	176.71	8561
079 07:34:43	150.36	8562
079 09:19:36	124.02	8563
079 11:04:30	97.67	8564
079 12:49:23	71.32	8565
079 14:34:17	44.97	8566
079 16:19:10	18.62	8567
079 18:04:04	-7.73	8568
079 19:48:57	-34.08	8569
079 21:33:51	-60.42	8570
079 23:18:44	-86.77	8571

079 00:19:18	34.73	5287
079 02:04:14	8.38	5288
079 03:49:09	-17.98	5289
079 05:34:04	-44.33	5290
079 07:19:00	-70.69	5291
079 09:03:55	-97.04	5292
079 10:48:50	-123.40	5293
079 12:33:46	-149.75	5294
079 14:18:41	-176.11	5295
079 16:03:36	157.53	5296
079 17:48:31	131.18	5297
079 19:33:27	104.82	5298
079 21:18:22	78.46	5299
079 23:03:17	52.11	5300

080 01:03:38	-113.12	8572
080 02:48:31	-139.47	8573
080 04:33:25	-165.82	8574
080 06:18:18	167.83	8575
080 08:03:12	141.49	8576
080 09:48:05	115.14	8577
080 11:32:59	88.79	8578
080 13:17:52	62.44	8579
080 15:02:46	36.09	8580
080 16:47:39	9.74	8581
080 18:32:33	-16.60	8582
080 20:17:26	-42.95	8583
080 22:02:20	-69.30	8584
080 23:47:13	-95.65	8585

080 00:48:13	25.75	5301
080 02:33:08	-.60	5302
080 04:18:03	-26.96	5303
080 06:02:58	-53.32	5304
080 07:47:54	-79.67	5305
080 09:32:49	-106.03	5306
080 11:17:44	-132.38	5307
080 13:02:40	-158.74	5308
080 14:47:35	174.91	5309
080 16:32:30	148.55	5310
080 18:17:26	122.19	5311
080 20:02:21	95.84	5312
080 21:47:16	69.48	5313
080 23:32:11	43.12	5314

SATELLITE S2				SATELLITE S3				SATELLITE S4			
Ascending Node Predictions				Ascending Node Predictions				Ascending Node Predictions			
Predicting for 184 days				Predicting for 184 days				Predicting for 183 days			
TIME (GMT)	E	LONG	ORBIT	TIME (GMT)	E	LONG	ORBIT	TIME (GMT)	E	LONG	ORBIT
day hr mn sc	deg dg	deg dg	deg dg	day hr mn sc	deg dg	deg dg	deg dg	day hr mn sc	deg dg	deg dg	deg dg
077 00:23:08	-92.65	32264		077 00:23:21	-77.25	23355		077 00:54:39	-158.02	12760	
077 02:05:07	-118.14	32265		077 02:04:33	-102.55	23356		077 02:36:43	176.46	12761	
077 03:47:07	-143.64	32266		077 03:45:46	-127.86	23357		077 04:18:47	150.94	12762	
077 05:29:06	-169.13	32267		077 05:26:58	-153.16	23358		077 06:00:51	125.42	12763	
077 07:11:06	165.37	32268		077 07:08:10	-178.46	23359		077 07:42:55	99.91	12764	
077 08:53:05	139.88	32269		077 08:49:22	156.24	23360		077 09:24:58	74.40	12765	
077 10:35:05	114.38	32270		077 10:30:34	130.94	23361		077 11:07:02	48.88	12766	
077 12:17:04	88.89	32271		077 12:11:46	105.64	23362		077 12:49:06	23.37	12767	
077 13:59:04	63.39	32272		077 13:52:59	80.33	23363		077 14:31:10	-2.15	12768	
077 15:41:03	37.90	32273		077 15:34:11	55.03	23364		077 16:13:14	-27.67	12769	
077 17:23:03	12.40	32274		077 17:15:23	29.73	23365		077 17:55:17	-53.17	12770	
077 19:05:02	-13.09	32275		077 18:56:35	4.43	23366		077 19:37:21	-78.69	12771	
077 20:47:02	-38.59	32276		077 20:37:47	-20.87	23367		077 21:19:25	-104.21	12772	
077 22:29:01	-64.08	32277		077 22:18:59	-46.17	23368		077 23:01:29	-129.72	12773	
078 00:11:01	-89.58	32278		078 00:00:12	-71.48	23369		078 00:43:33	-155.24	12774	
078 01:53:00	-115.07	32279		078 01:41:24	-96.78	23370		078 02:25:36	179.26	12775	
078 03:35:00	-140.57	32280		078 03:22:36	-122.08	23371		078 04:07:40	153.74	12776	
078 05:16:59	-166.06	32281		078 05:03:48	-147.38	23372		078 05:49:44	128.22	12777	
078 06:58:59	168.44	32282		078 06:45:00	-172.68	23373		078 07:31:48	102.70	12778	
078 08:40:58	142.95	32283		078 08:26:12	162.03	23374		078 09:13:52	77.19	12779	
078 10:22:58	117.45	32284		078 10:07:25	136.71	23375		078 10:55:55	51.68	12780	
078 12:04:57	91.96	32285		078 11:48:37	111.41	23376		078 12:37:59	26.16	12781	
078 13:46:57	66.46	32286		078 13:29:49	86.12	23377		078 14:20:03	.65	12782	
078 15:28:56	40.97	32287		078 15:11:01	60.82	23378		078 16:02:07	-24.87	12783	
078 17:10:56	15.47	32288		078 16:52:13	35.52	23379		078 17:44:11	-50.39	12784	
078 18:52:55	-10.02	32289		078 18:33:25	10.22	23380		078 19:26:14	-75.89	12785	
078 20:34:55	-35.52	32290		078 20:14:38	-15.09	23381		078 21:08:18	-101.41	12786	
078 22:16:54	-61.01	32291		078 21:55:50	-40.39	23382		078 22:50:22	-126.93	12787	
078 23:58:54	-86.51	32292		078 23:37:02	-65.69	23383					
079 01:40:53	-112.00	32293		079 01:18:14	-90.99	23384		079 00:32:26	-152.44	12788	
079 03:22:53	-137.50	32294		079 02:59:26	-116.29	23385		079 02:14:30	-177.96	12789	
079 05:04:52	-162.99	32295		079 04:40:39	-141.60	23386		079 03:56:33	156.54	12790	
079 06:46:52	171.50	32296		079 06:21:51	-166.90	23387		079 05:38:37	131.02	12791	
079 08:28:51	146.02	32297		079 08:03:03	167.80	23388		079 07:20:41	105.50	12792	
079 10:10:51	120.51	32298		079 09:44:15	142.50	23389		079 09:02:45	79.98	12793	
079 11:52:50	95.03	32299		079 11:25:27	117.20	23390		079 10:44:49	54.47	12794	
079 13:34:50	69.52	32300		079 13:06:39	91.90	23391		079 12:26:52	28.96	12795	
079 15:16:49	44.04	32301		079 14:47:52	66.59	23392		079 14:08:56	3.44	12796	
079 16:58:49	18.53	32302		079 16:29:04	41.29	23393		079 15:51:00	-22.07	12797	
079 18:40:48	-6.96	32303		079 18:10:16	15.99	23394		079 17:33:04	-47.59	12798	
079 20:22:48	-32.46	32304		079 19:51:28	-9.31	23395		079 19:15:08	-73.11	12799	
079 22:04:47	-57.95	32305		079 21:32:40	-34.61	23396		079 20:57:12	-96.63	12800	
079 23:46:47	-83.45	32306		079 23:13:52	-59.91	23397		079 22:39:15	-124.13	12801	
080 01:28:46	-108.94	32307		080 00:53:05	-85.22	23398		080 00:21:19	-149.65	12802	
080 03:10:46	-134.44	32308		080 02:36:17	-110.52	23399		080 02:03:23	-175.16	12803	
080 04:52:45	-159.93	32309		080 04:17:29	-135.82	23400		080 03:45:27	159.32	12804	
080 06:34:45	174.57	32310		080 05:58:41	-161.12	23401		080 05:27:31	133.80	12805	
080 08:16:44	149.08	32311		080 07:39:53	173.58	23402		080 07:09:34	108.30	12806	
080 09:58:44	123.58	32312		080 09:21:05	148.29	23403		080 08:51:38	82.78	12807	
080 11:40:43	98.09	32313		080 11:02:18	122.97	23404		080 10:33:42	57.26	12808	
080 13:22:43	72.59	32314		080 12:43:30	97.67	23405		080 12:15:46	31.75	12809	
080 15:04:42	47.10	32315		080 14:24:42	72.38	23406		080 13:57:50	6.23	12810	
080 16:46:42	21.60	32316		080 16:05:54	47.08	23407		080 15:39:53	-19.28	12811	
080 18:28:41	-3.89	32317		080 17:47:06	21.78	23408		080 17:21:57	-44.79	12812	
080 20:10:41	-29.39	32318		080 19:28:18	-3.52	23409		080 19:04:01	-70.31	12813	
080 21:52:40	-54.88	32319		080 21:09:31	-28.83	23410		080 20:46:05	-95.83	12814	
080 23:34:40	-80.38	32320		080 22:50:43	-54.13	23411		080 22:28:09	-121.35	12815	

SATELLITE C4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

081 01:32:07	-122.00	8586
081 03:17:00	-148.35	8587
081 05:01:54	-174.69	8588
081 06:46:47	158.96	8589
081 08:31:41	132.61	8590
081 10:16:34	106.26	8591
081 12:01:28	79.91	8592
081 13:46:21	53.56	8593
081 15:31:15	27.22	8594
081 17:16:08	.87	8595
081 19:01:02	-25.48	8596
081 20:45:55	-51.83	8597
081 22:30:49	-78.18	8598

SATELLITE C5
Ascending Node Predictions

Predicting for 185 days

TIME (GMT) E LONG ORBIT
 day hr mn sc deg dg

081 01:17:07	16.77	5315
081 03:02:02	-9.59	5316
081 04:46:57	-35.94	5317
081 06:31:53	-62.30	5318
081 08:16:48	-88.65	5319
081 10:01:43	-115.01	5320
081 11:46:38	-141.37	5321
081 13:31:34	-167.72	5322
081 15:16:29	165.92	5323
081 17:01:24	139.57	5324
081 18:46:20	113.21	5325
081 20:31:15	86.86	5326
081 22:16:10	60.50	5327

082 00:15:42	-104.53	8599
082 02:00:36	-130.88	8600
082 03:45:29	-157.23	8601
082 05:30:23	176.43	8602
082 07:15:16	150.08	8603
082 09:00:10	123.73	8604
082 10:45:03	97.38	8605
082 12:29:57	71.03	8606
082 14:14:50	44.68	8607
082 15:59:44	18.34	8608
082 17:44:37	-8.01	8609
082 19:29:31	-34.36	8610
082 21:14:24	-60.71	8611
082 22:59:18	-87.06	8612

082 00:01:06	34.14	5328
082 01:46:01	7.79	5329
082 03:30:56	-18.57	5330
082 05:15:51	-44.93	5331
082 07:00:47	-71.28	5332
082 08:45:42	-97.64	5333
082 10:30:37	-123.99	5334
082 12:15:33	-150.35	5335
082 14:00:28	-176.70	5336
082 15:45:23	156.94	5337
082 17:30:18	130.58	5338
082 19:15:14	104.23	5339
082 21:00:09	77.87	5340
082 22:45:04	51.52	5341

083 00:44:11	-113.41	8613
083 02:29:05	-139.75	8614
083 04:13:58	-166.10	8615
083 05:58:52	167.55	8616
083 07:43:45	141.20	8617
083 09:28:39	114.85	8618
083 11:13:32	88.50	8619
083 12:58:26	62.16	8620
083 14:43:19	35.81	8621
083 16:28:13	9.46	8622
083 18:13:06	-16.89	8623
083 19:58:00	-43.24	8624
083 21:42:53	-69.59	8625
083 23:27:47	-95.93	8626

083 00:30:00	25.16	5342
083 02:14:55	-1.20	5343
083 03:59:50	-27.55	5344
083 05:44:46	-53.91	5345
083 07:29:41	-80.26	5346
083 09:14:36	-106.62	5347
083 10:59:31	-132.98	5348
083 12:44:27	-159.33	5349
083 14:29:22	174.31	5350
083 16:14:17	147.96	5351
083 17:59:13	121.60	5352
083 19:44:08	95.25	5353
083 21:29:03	68.89	5354
083 23:13:59	42.53	5355

084 01:12:40	-122.28	8627
084 02:57:34	-148.63	8628
084 04:42:27	-174.98	8629
084 06:27:21	158.67	8630
084 08:12:14	132.32	8631
084 09:57:08	105.97	8632
084 11:42:01	79.62	8633
084 13:26:55	53.28	8634
084 15:11:48	26.93	8635
084 16:56:42	.58	8636
084 18:41:35	-25.77	8637
084 20:26:29	-52.12	8638
084 22:11:22	-78.47	8639
084 23:56:16	-104.81	8640

084 00:58:54	16.18	5356
084 02:43:49	-10.18	5357
084 04:28:44	-36.54	5358
084 06:13:40	-62.89	5359
084 07:58:35	-89.25	5360
084 09:43:30	-115.60	5361
084 11:28:26	-141.96	5362
084 13:13:21	-168.31	5363
084 14:58:16	165.33	5364
084 16:43:12	138.98	5365
084 18:28:07	112.62	5366
084 20:13:02	86.26	5367
084 21:57:57	59.90	5368
084 23:42:53	33.55	5369

SATELLITE S2

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

081	01:16:39	-105.87	32321
081	02:58:39	-131.37	32322
081	04:40:38	-156.86	32323
081	06:22:38	177.64	32324
081	08:04:37	152.15	32325
081	09:46:37	126.65	32326
081	11:28:36	101.16	32327
081	13:10:36	75.66	32328
081	14:52:35	50.17	32329
081	16:34:35	24.67	32330
081	18:16:34	-82	32331
081	19:58:34	-26.32	32332
081	21:40:33	-51.81	32333
081	23:22:33	-77.31	32334

SATELLITE S3

Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

081	00:31:55	-79.43	23412
081	02:13:07	-104.73	23413
081	03:54:19	-130.03	23414
081	05:35:31	-155.33	23415
081	07:16:44	179.36	23416
081	08:57:56	154.06	23417
081	10:39:08	128.76	23418
081	12:20:20	103.46	23419
081	14:01:32	78.16	23420
081	15:42:44	52.86	23421
081	17:23:57	27.55	23422
081	19:05:09	2.25	23423
081	20:46:21	-23.05	23424
081	22:27:33	-48.35	23425

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

081	00:10:12	-146.85	12816
081	01:52:16	-172.37	12817
081	03:34:20	162.12	12818
081	05:16:24	136.60	12819
081	06:58:28	111.08	12820
081	08:40:31	85.58	12821
081	10:22:35	60.06	12822
081	12:04:39	34.54	12823
081	13:46:43	9.03	12824
081	15:28:47	-16.49	12825
081	17:10:50	-42.00	12826
081	18:52:54	-67.51	12827
081	20:34:58	-93.03	12828
081	22:17:02	-118.55	12829
081	23:59:06	-144.07	12830

082	01:04:32	-102.80	32335
082	02:46:32	-128.30	32336
082	04:28:31	-153.79	32337
082	06:10:31	-179.29	32338
082	07:52:30	155.22	32339
082	09:34:30	129.71	32340
082	11:16:29	104.23	32341
082	12:58:29	78.72	32342
082	14:40:28	53.24	32343
082	16:22:28	27.73	32344
082	18:04:27	2.25	32345
082	19:46:27	-23.26	32346
082	21:28:26	-48.74	32347
082	23:10:26	-74.25	32348

082	00:08:45	-73.65	23426
082	01:49:57	-98.95	23427
082	03:31:10	-124.26	23428
082	05:12:22	-149.56	23429
082	06:53:34	-174.86	23430
082	08:34:46	159.84	23431
082	10:15:58	134.55	23432
082	11:57:10	109.25	23433
082	13:38:23	83.93	23434
082	15:19:35	58.64	23435
082	17:00:47	33.34	23436
082	18:41:59	8.04	23437
082	20:23:11	-17.26	23438
082	22:04:23	-82.56	23439
082	23:45:36	-67.87	23440

082	01:41:09	-169.57	12831
082	03:23:13	164.91	12832
082	05:05:17	139.40	12833
082	06:47:21	113.88	12834
082	08:29:25	88.36	12835
082	10:11:29	62.84	12836
082	11:53:32	37.34	12837
082	13:35:36	11.82	12838
082	15:17:40	-13.69	12839
082	16:59:44	-39.21	12840
082	18:41:48	-64.73	12841
082	20:23:51	-90.23	12842
082	22:05:55	-115.75	12843
082	23:47:59	-141.27	12844

083	00:52:25	-99.74	32349
083	02:34:25	-125.24	32350
083	04:16:24	-150.73	32351
083	05:58:24	-176.23	32352
083	07:40:23	158.28	32353
083	09:22:23	132.78	32354
083	11:04:22	107.29	32355
083	12:46:22	81.79	32356
083	14:28:21	56.30	32357
083	16:10:21	30.80	32358
083	17:52:20	5.31	32359
083	19:34:20	-20.19	32360
083	21:16:19	-45.66	32361
083	22:58:19	-71.18	32362

083	01:26:48	-93.17	23441
083	03:08:00	-118.47	23442
083	04:49:12	-143.77	23443
083	06:30:24	-169.07	23444
083	08:11:36	165.63	23445
083	09:52:49	140.32	23446
083	11:34:01	115.02	23447
083	13:15:13	89.72	23448
083	14:56:25	64.42	23449
083	16:37:37	39.12	23450
083	18:18:49	13.82	23451
083	20:00:02	-11.49	23452
083	21:41:14	-36.79	23453
083	23:22:26	-62.09	23454

083	01:30:03	-166.79	12845
083	03:12:07	167.70	12846
083	04:54:10	142.19	12847
083	06:36:14	116.68	12848
083	08:18:18	91.16	12849
083	10:00:22	65.64	12850
083	11:42:26	40.12	12851
083	13:24:29	14.62	12852
083	15:06:33	-10.90	12853
083	16:48:37	-36.41	12854
083	18:30:41	-61.93	12855
083	20:12:45	-87.45	12856
083	21:54:48	-112.95	12857
083	23:36:52	-138.47	12858

084	00:40:18	-96.67	32363
084	02:22:18	-122.17	32364
084	04:04:17	-147.66	32365
084	05:46:17	-173.16	32366
084	07:28:16	161.35	32367
084	09:10:16	135.85	32368
084	10:52:16	110.35	32369
084	12:34:15	84.86	32370
084	14:16:15	59.36	32371
084	15:58:14	33.87	32372
084	17:40:14	8.37	32373
084	19:22:13	-17.12	32374
084	21:04:13	-42.62	32375
084	22:46:12	-68.11	32376

084	01:03:38	-87.39	23455
084	02:44:50	-112.69	23456
084	04:26:02	-137.98	23457
084	06:07:15	-163.30	23458
084	07:48:27	171.40	23459
084	09:29:39	146.10	23460
084	11:10:51	120.81	23461
084	12:52:03	95.51	23462
084	14:33:15	70.21	23463
084	16:14:28	44.90	23464
084	17:55:40	19.60	23465
084	19:36:52	-5.70	23466
084	21:18:04	-31.00	23467
084	22:59:16	-56.30	23468

084	01:18:56	-163.99	12859
084	03:01:00	170.49	12860
084	04:43:04	144.98	12861
084	06:25:07	119.47	12862
084	08:07:11	93.96	12863
084	09:49:15	68.44	12864
084	11:31:19	42.92	12865
084	13:13:23	17.40	12866
084	14:55:26	-8.10	12867
084	16:37:30	-33.62	12868
084	18:19:34	-59.13	12869
084	20:01:38	-84.65	12870
084	21:43:42	-110.17	12871
084	23:25:46	-135.69	12872

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

085 01:41:09	-131.16	8641
085 03:26:03	-157.51	8642
085 05:10:56	176.14	8643
085 06:55:50	149.79	8644
085 08:40:43	123.44	8645
085 10:25:37	97.10	8646
085 12:10:30	70.75	8647
085 13:55:24	44.40	8648
085 15:40:17	18.05	8649
085 17:25:11	-8.30	8650
085 19:10:04	-34.65	8651
085 20:54:58	-60.99	8652
085 22:39:51	-87.34	8653

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

085 01:27:48	7.19	5370
085 03:12:43	-19.16	5371
085 04:57:39	-45.52	5372
085 06:42:34	-71.87	5373
085 08:27:29	-98.23	5374
085 10:12:25	-124.58	5375
085 11:57:20	-150.94	5376
085 13:42:15	-177.30	5377
085 15:27:10	156.35	5378
085 17:12:06	129.99	5379
085 18:57:01	103.63	5380
085 20:41:56	77.28	5381
085 22:26:52	50.92	5382

086 00:24:45	-113.69	8654
086 02:09:38	-140.04	8655
086 03:54:32	-166.39	8656
086 05:39:25	157.26	8657
086 07:24:19	140.92	8658
086 09:09:12	114.57	8659
086 10:54:06	88.22	8660
086 12:38:59	61.87	8661
086 14:23:53	35.52	8662
086 16:08:46	9.17	8663
086 17:53:40	-17.18	8664
086 19:38:33	-43.53	8665
086 21:23:27	-69.87	8666
086 23:08:20	-96.22	8667

086 00:11:47	24.57	5383
086 01:56:42	-1.79	5384
086 03:41:38	-28.14	5385
086 05:26:33	-54.50	5386
086 07:11:28	-80.86	5387
086 08:56:23	-107.21	5388
086 10:41:19	-133.57	5389
086 12:26:14	-159.92	5390
086 14:11:09	173.72	5391
086 15:56:05	147.36	5392
086 17:41:00	121.01	5393
086 19:25:55	94.65	5394
086 21:10:51	68.30	5395
086 22:55:46	41.94	5396

087 00:53:14	-122.57	8668
087 02:38:07	-148.92	8669
087 04:23:01	-175.27	8670
087 06:07:54	158.38	8671
087 07:52:48	132.04	8672
087 09:37:41	105.69	8673
087 11:22:35	79.34	8674
087 13:07:28	52.99	8675
087 14:52:22	26.64	8676
087 16:37:15	.29	8677
087 18:22:09	-26.05	8678
087 20:07:02	-52.40	8679
087 21:51:56	-78.75	8680
087 23:36:49	-105.10	8681

087 00:40:41	15.58	5397
087 02:25:37	-10.77	5398
087 04:10:32	-37.13	5399
087 05:55:27	-63.48	5400
087 07:40:22	-89.84	5401
087 09:25:18	-116.20	5402
087 11:10:13	-142.55	5403
087 12:55:08	-168.91	5404
087 14:40:04	164.74	5405
087 16:24:59	138.38	5406
087 18:09:54	112.02	5407
087 19:54:50	85.67	5408
087 21:39:45	59.31	5409
087 23:24:40	32.96	5410

088 01:21:43	-131.45	8682
088 03:06:36	-157.80	8683
088 04:51:30	175.86	8684
088 06:36:23	149.51	8685
088 08:21:17	123.16	8686
088 10:06:10	96.81	8687
088 11:51:04	70.46	8688
088 13:35:57	44.11	8689
088 15:20:51	17.76	8690
088 17:05:44	-8.59	8691
088 18:50:38	-34.93	8692
088 20:35:31	-61.28	8693
088 22:20:25	-87.63	8694

088 01:09:35	6.60	5411
088 02:54:31	-19.75	5412
088 04:39:26	-46.11	5413
088 06:24:21	-72.47	5414
088 08:09:17	-98.82	5415
088 09:54:12	-125.18	5416
088 11:39:07	-151.54	5417
088 13:24:03	-177.89	5418
088 15:08:58	155.75	5419
088 16:53:53	129.40	5420
088 18:38:49	103.04	5421
088 20:23:44	76.69	5422
088 22:08:39	50.33	5423
088 23:53:34	23.97	5424

SATELLITE S2

Ascending Node Predictions
Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	
085 00:28:12	-93.61	32377
085 02:10:11	-119.10	32378
085 03:52:11	-144.60	32379
085 05:34:10	-170.09	32380
085 07:16:10	164.40	32381
085 08:58:09	138.92	32382
085 10:40:09	113.41	32383
085 12:22:08	87.93	32384
085 14:04:08	62.42	32385
085 15:46:07	36.94	32386
085 17:28:07	11.43	32387
085 19:10:06	-14.05	32388
085 20:52:06	-39.56	32389
085 22:34:05	-65.05	32390

SATELLITE S3

Ascending Node Predictions
Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	
085 00:40:28	-81.60	23469
085 02:21:41	-106.91	23470
085 04:02:53	-132.21	23471
085 05:44:05	-157.51	23472
085 07:25:17	177.19	23473
085 09:06:29	151.89	23474
085 10:47:41	126.59	23475
085 12:28:54	101.28	23476
085 14:10:06	75.98	23477
085 15:51:18	50.68	23478
085 17:32:30	25.38	23479
085 19:13:42	.08	23480
085 20:54:55	-25.23	23481
085 22:36:07	-50.53	23482

SATELLITE S4

Ascending Node Predictions
Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	
085 01:07:49	-161.19	12873
085 02:49:53	173.29	12874
085 04:31:57	147.78	12875
085 06:14:01	122.26	12876
085 07:56:05	96.74	12877
085 09:38:08	71.24	12878
085 11:20:12	45.72	12879
085 13:02:16	20.20	12880
085 14:44:20	-5.32	12881
085 16:26:24	-30.83	12882
085 18:08:27	-56.34	12883
085 19:50:31	-81.85	12884
085 21:32:35	-107.37	12885
085 23:14:39	-132.89	12886

086 00:16:05	-90.55	32391
086 01:58:04	-116.04	32392
086 03:40:04	-141.54	32393
086 05:22:03	-167.03	32394
086 07:04:03	167.47	32395
086 08:46:02	141.98	32396
086 10:28:02	116.48	32397
086 12:10:01	90.99	32398
086 13:52:01	65.49	32399
086 15:34:00	40.00	32400
086 17:16:00	14.50	32401
086 18:57:59	-10.99	32402
086 20:39:59	-36.49	32403
086 22:21:58	-61.98	32404

086 00:17:19	-75.83	23483
086 01:58:31	-101.13	23484
086 03:39:43	-126.43	23485
086 05:20:55	-151.72	23486
086 07:02:08	-177.04	23487
086 08:43:20	157.66	23488
086 10:24:32	132.36	23489
086 12:05:44	107.07	23490
086 13:46:56	81.77	23491
086 15:28:08	56.47	23492
086 17:09:21	31.16	23493
086 18:50:33	5.86	23494
086 20:31:45	-19.44	23495
086 22:12:57	-44.74	23496
086 23:54:09	-70.04	23497

086 00:56:43	-158.41	12887
086 02:38:46	176.09	12888
086 04:20:50	150.57	12889
086 06:02:54	125.06	12890
086 07:44:58	99.54	12891
086 09:27:02	74.02	12892
086 11:09:05	48.52	12893
086 12:51:09	23.00	12894
086 14:33:13	-2.52	12895
086 16:15:17	-22.04	12896
086 17:57:21	-53.55	12897
086 19:39:24	-79.06	12898
086 21:21:28	-104.57	12899
086 23:03:32	-130.09	12900

087 00:03:58	-87.48	32405
087 01:45:57	-112.97	32406
087 03:27:57	-138.47	32407
087 05:09:56	-163.96	32408
087 06:51:56	170.54	32409
087 08:33:55	145.05	32410
087 10:15:55	119.55	32411
087 11:57:54	94.06	32412
087 13:39:54	68.56	32413
087 15:21:53	43.07	32414
087 17:03:53	17.57	32415
087 18:45:52	-7.92	32416
087 20:27:52	-33.42	32417
087 22:09:51	-58.91	32418
087 23:51:51	-84.41	32419

087 01:35:21	-95.34	23498
087 03:16:34	-120.65	23499
087 04:57:46	-145.95	23500
087 06:38:58	-171.25	23501
087 08:20:10	163.45	23502
087 10:01:22	138.15	23503
087 11:42:34	112.85	23504
087 13:23:47	87.54	23505
087 15:04:59	62.24	23506
087 16:46:11	36.94	23507
087 18:27:23	11.64	23508
087 20:08:35	-13.66	23509
087 21:49:47	-38.96	23510
087 23:31:00	-64.27	23511

087 00:45:36	-155.61	12901
087 02:27:40	178.87	12902
087 04:09:44	153.36	12903
087 05:51:47	127.85	12904
087 07:33:51	102.34	12905
087 09:15:55	76.82	12906
087 10:57:59	51.30	12907
087 12:40:03	25.78	12908
087 14:22:06	.28	12909
087 16:04:10	-25.24	12910
087 17:46:14	-50.76	12911
087 19:28:18	-76.27	12912
087 21:10:22	-101.79	12913
087 22:52:25	-127.29	12914

088 01:33:50	-109.90	32420
088 03:15:50	-135.40	32421
088 04:57:49	-160.89	32422
088 06:39:49	173.61	32423
088 08:21:48	148.12	32424
088 10:03:48	122.62	32425
088 11:45:47	97.13	32426
088 13:27:47	71.63	32427
088 15:09:46	46.14	32428
088 16:51:46	20.64	32429
088 18:33:45	-4.85	32430
088 20:15:45	-30.35	32431
088 21:57:44	-55.84	32432
088 23:39:44	-81.35	32433

088 01:12:12	-89.57	23512
088 02:53:24	-114.87	23513
088 04:34:36	-140.17	23514
088 06:15:48	-165.86	23515
088 07:57:00	169.24	23516
088 09:38:13	143.92	23517
088 11:19:25	118.63	23518
088 13:00:37	93.33	23519
088 14:41:49	68.03	23520
088 16:23:01	42.73	23521
088 18:04:13	17.43	23522
088 19:45:26	-7.88	23523
088 21:26:38	-33.18	23524
088 23:07:50	-58.48	23525

088 00:34:29	-152.81	12915
088 02:16:33	-178.33	12916
088 03:58:37	156.15	12917
088 05:40:41	130.64	12918
088 07:22:44	105.13	12919
088 09:04:48	79.62	12920
088 10:46:52	54.10	12921
088 12:28:56	28.58	12922
088 14:11:00	3.06	12923
088 15:53:03	-22.44	12924
088 17:35:07	-47.96	12925
088 19:17:11	-73.47	12926
088 20:59:15	-98.99	12927
088 22:41:19	-124.51	12928

SATELLITE C4
Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

089 00:05:18 -113.98 8695
 089 01:50:12 -140.33 8696
 089 03:35:05 -166.68 8697
 089 05:19:59 166.98 8698
 089 07:04:52 140.63 8699
 089 08:49:46 114.28 8700
 089 10:34:39 87.93 8701
 089 12:19:33 61.58 8702
 089 14:04:26 35.23 8703
 089 15:49:20 8.89 8704
 089 17:34:13 -17.46 8705
 089 19:19:07 -43.81 8706
 089 21:04:00 -70.16 8707
 089 22:48:54 -96.51 8708

SATELLITE C5
Ascending Node Predictions
Predicting for 185 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

089 01:38:30 -2.38 5425
 089 03:23:25 -28.74 5426
 089 05:08:20 -55.10 5427
 089 06:53:16 -81.45 5428
 089 08:38:11 -107.81 5429
 089 10:23:06 -134.16 5430
 089 12:08:02 -160.52 5431
 089 13:52:57 173.13 5432
 089 15:37:52 146.77 5433
 089 17:22:48 120.41 5434
 089 19:07:43 94.06 5435
 089 20:52:38 67.70 5436
 089 22:37:33 41.34 5437

090 00:33:47 -122.86 8709
 090 02:18:41 -149.20 8710
 090 04:03:34 -175.55 8711
 090 05:48:28 158.10 8712
 090 07:33:21 131.75 8713
 090 09:18:15 105.40 8714
 090 11:03:09 79.05 8715
 090 12:48:02 52.70 8716
 090 14:32:56 26.36 8717
 090 16:17:49 .01 8718
 090 18:02:43 -26.34 8719
 090 19:47:36 -52.69 8720
 090 21:32:30 -79.04 8721
 090 23:17:23 -105.39 8722

090 00:22:29 14.99 5438
 090 02:07:24 -11.37 5439
 090 03:52:19 -37.72 5440
 090 05:37:15 -64.08 5441
 090 07:22:10 -90.43 5442
 090 09:07:05 -116.79 5443
 090 10:52:01 -143.14 5444
 090 12:36:56 -169.50 5445
 090 14:21:51 164.14 5446
 090 16:06:47 137.79 5447
 090 17:51:42 111.43 5448
 090 19:36:37 85.07 5449
 090 21:21:32 58.72 5450
 090 23:06:28 32.36 5451

091 01:02:17 -131.73 8723
 091 02:47:10 -158.08 8724
 091 04:32:04 175.57 8725
 091 06:16:57 149.22 8726
 091 08:01:51 122.87 8727
 091 09:46:44 96.52 8728
 091 11:31:38 70.18 8729
 091 13:16:31 43.83 8730
 091 15:01:25 17.48 8731
 091 16:46:18 -8.87 8732
 091 18:31:12 -35.22 8733
 091 20:16:05 -61.57 8734
 091 22:00:59 -87.92 8735
 091 23:45:52 -114.27 8736

091 00:51:23 6.01 5452
 091 02:36:18 -20.35 5453
 091 04:21:14 -46.70 5454
 091 06:06:09 -73.06 5455
 091 07:51:04 -99.42 5456
 091 09:36:00 -125.77 5457
 091 11:20:55 -152.13 5458
 091 13:05:50 -178.49 5459
 091 14:50:46 155.16 5460
 091 16:35:41 128.80 5461
 091 18:20:36 102.45 5462
 091 20:05:31 76.09 5463
 091 21:50:27 49.74 5464
 091 23:35:22 23.38 5465

092 01:30:46 -140.61 8737
 092 03:15:39 -166.96 8738
 092 05:00:33 166.69 8739
 092 06:45:26 140.34 8740
 092 08:30:20 113.99 8741
 092 10:15:13 87.64 8742
 092 12:00:07 61.30 8743
 092 13:45:00 34.95 8744
 092 15:29:54 8.60 8745
 092 17:14:47 -17.75 8746
 092 18:59:41 -44.10 8747
 092 20:44:34 -70.45 8748
 092 22:29:28 -96.79 8749

092 01:20:17 -2.98 5466
 092 03:05:13 -29.33 5467
 092 04:50:08 -55.69 5468
 092 06:35:03 -82.05 5469
 092 08:19:59 -108.40 5470
 092 10:04:54 -134.76 5471
 092 11:49:49 -161.11 5472
 092 13:34:45 172.53 5473
 092 15:19:40 146.17 5474
 092 17:04:35 119.82 5475
 092 18:49:31 93.46 5476
 092 20:34:26 67.11 5477
 092 22:19:21 40.75 5478

SATELLITE S2
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG** **ORBIT**
day hr mn sc **deg dg**

089 01:21:43	-106.83	32434
089 03:03:43	-132.34	32435
089 04:45:42	-157.82	32436
089 06:27:42	176.67	32437
089 08:09:41	151.19	32438
089 09:51:41	125.68	32439
089 11:33:41	100.18	32440
089 13:15:40	74.69	32441
089 14:57:40	49.19	32442
089 16:39:39	23.70	32443
089 18:21:39	-1.80	32444
089 20:03:38	-27.29	32445
089 21:45:38	-52.79	32446
089 23:27:37	-78.28	32447

SATELLITE S3
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG** **ORBIT**
day hr mn sc **deg dg**

089 00:49:02	-83.78	23526
089 02:30:14	-109.08	23527
089 04:11:26	-134.38	23528
089 05:52:39	-159.69	23529
089 07:33:51	175.01	23530
089 09:15:03	149.71	23531
089 10:56:15	124.41	23532
089 12:37:27	99.11	23533
089 14:18:39	73.81	23534
089 15:59:52	48.50	23535
089 17:41:04	23.20	23536
089 19:22:16	-2.10	23537
089 21:03:28	-27.40	23538
089 22:44:40	-52.70	23539

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) **E LONG** **ORBIT**
day hr mn sc **deg dg**

089 00:23:22	-150.01	12929
089 02:05:26	-175.53	12930
089 03:47:30	158.95	12931
089 05:29:34	133.43	12932
089 07:11:38	107.92	12933
089 08:53:42	82.40	12934
089 10:35:45	56.90	12935
089 12:17:49	31.38	12936
089 13:59:53	5.86	12937
089 15:41:57	-19.66	12938
089 17:24:01	-45.17	12939
089 19:06:04	-70.68	12940
089 20:48:08	-96.19	12941
089 22:30:12	-121.71	12942

090 01:09:37	-103.78	32448
090 02:51:36	-129.27	32449
090 04:33:36	-154.77	32450
090 06:15:35	179.74	32451
090 07:57:35	154.24	32452
090 09:39:34	128.75	32453
090 11:21:34	103.25	32454
090 13:03:33	77.76	32455
090 14:45:33	52.26	32456
090 16:27:32	26.77	32457
090 18:09:32	1.27	32458
090 19:51:31	-24.22	32459
090 21:33:31	-49.72	32460
090 23:15:30	-75.21	32461

090 00:25:52	-77.99	23540
090 02:07:05	-103.31	23541
090 03:48:17	-128.61	23542
090 05:29:29	-153.91	23543
090 07:10:41	-179.20	23544
090 08:51:53	155.50	23545
090 10:33:05	130.20	23546
090 12:14:18	104.89	23547
090 13:55:30	79.59	23548
090 15:36:42	54.29	23549
090 17:17:54	28.99	23550
090 18:59:06	3.69	23551
090 20:40:18	-21.61	23552
090 22:21:31	-46.92	23553

090 00:12:16	-147.23	12943
090 01:54:20	-172.75	12944
090 03:36:23	161.75	12945
090 05:18:27	136.23	12946
090 07:00:31	110.71	12947
090 08:42:35	85.20	12948
090 10:24:39	59.68	12949
090 12:06:42	34.18	12950
090 13:48:46	8.66	12951
090 15:30:50	-16.86	12952
090 17:12:54	-42.38	12953
090 18:54:58	-67.89	12954
090 20:37:01	-93.40	12955
090 22:19:05	-118.91	12956

091 00:57:30	-100.71	32462
091 02:39:29	-126.20	32463
091 04:21:29	-151.70	32464
091 06:03:28	-177.19	32465
091 07:45:28	157.31	32466
091 09:27:27	131.82	32467
091 11:09:27	106.32	32468
091 12:51:26	80.83	32469
091 14:33:26	55.33	32470
091 16:15:25	29.84	32471
091 17:57:25	4.34	32472
091 19:39:24	-21.15	32473
091 21:21:24	-46.65	32474
091 23:03:23	-72.14	32475

091 00:02:43	-72.22	23554
091 01:43:55	-97.52	23555
091 03:25:07	-122.82	23556
091 05:06:19	-148.12	23557
091 06:47:31	-173.42	23558
091 08:28:44	161.27	23559
091 10:09:56	135.97	23560
091 11:51:08	110.67	23561
091 13:32:20	85.37	23562
091 15:13:32	60.07	23563
091 16:54:44	34.77	23564
091 18:35:57	9.46	23565
091 20:17:09	-15.84	23566
091 21:58:21	-41.14	23567
091 23:39:33	-66.44	23568

091 00:01:09	-144.43	12957
091 01:43:13	-169.95	12958
091 03:25:17	164.53	12959
091 05:07:21	139.02	12960
091 06:49:24	113.51	12961
091 08:31:28	88.00	12962
091 10:13:32	62.48	12963
091 11:55:36	36.96	12964
091 13:37:40	11.44	12965
091 15:19:43	-14.06	12966
091 17:01:47	-39.58	12967
091 18:43:51	-65.10	12968
091 20:25:55	-90.61	12969
091 22:07:59	-116.13	12970
091 23:50:02	-141.63	12971

092 00:45:23	-97.64	32476
092 02:27:22	-123.13	32477
092 04:09:22	-148.63	32478
092 05:51:21	-174.12	32479
092 07:33:21	160.37	32480
092 09:15:20	134.89	32481
092 10:57:20	109.38	32482
092 12:39:19	83.90	32483
092 14:21:19	58.39	32484
092 16:03:18	32.91	32485
092 17:45:18	7.40	32486
092 19:27:17	-18.08	32487
092 21:09:17	-43.59	32488
092 22:51:16	-69.07	32489

092 01:20:45	-91.74	23569
092 03:01:57	-117.03	23570
092 04:43:10	-142.35	23571
092 06:24:22	-167.65	23572
092 08:05:34	167.06	23573
092 09:46:46	141.76	23574
092 11:27:58	116.46	23575
092 13:09:10	91.16	23576
092 14:50:23	65.85	23577
092 16:31:35	40.55	23578
092 18:12:47	15.25	23579
092 19:53:59	-10.05	23580
092 21:35:11	-35.35	23581
092 23:16:23	-60.65	23582

092 01:32:06	-167.15	12972
092 03:14:10	167.33	12973
092 04:56:14	141.81	12974
092 06:38:18	116.30	12975
092 08:20:21	90.79	12976
092 10:02:25	65.28	12977
092 11:44:29	39.76	12978
092 13:26:33	14.24	12979
092 15:08:37	-11.28	12980
092 16:50:40	-36.78	12981
092 18:32:44	-62.30	12982
092 20:14:48	-87.82	12983
092 21:56:52	-113.33	12984
092 23:38:56	-138.85	12985

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

093 00:14:21	-123.14	8750
093 01:59:15	-149.49	8751
093 03:44:08	-175.84	8752
093 05:29:02	157.81	8753
093 07:13:55	131.46	8754
093 08:58:49	105.12	8755
093 10:43:42	78.77	8756
093 12:28:36	52.42	8757
093 14:13:29	26.07	8758
093 15:58:23	-28	8759
093 17:43:16	-26.63	8760
093 19:28:10	-52.98	8761
093 21:13:03	-79.33	8762
093 22:57:57	-105.67	8763

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

093 00:04:16	14.39	5479
093 01:49:12	-11.96	5480
093 03:34:07	-38.32	5481
093 05:19:02	-64.67	5482
093 07:03:58	-91.03	5483
093 08:48:53	-117.39	5484
093 10:33:48	-143.74	5485
093 12:18:44	-170.10	5486
093 14:03:39	163.55	5487
093 15:48:34	137.19	5488
093 17:33:30	110.84	5489
093 19:18:25	84.48	5490
093 21:03:20	58.12	5491
093 22:48:16	31.77	5492

094 00:42:50	-132.02	8764
094 02:27:44	-158.37	8765
094 04:12:37	175.28	8766
094 05:57:31	148.93	8767
094 07:42:24	122.58	8768
094 09:27:18	96.24	8769
094 11:12:11	69.89	8770
094 12:57:05	43.54	8771
094 14:41:58	17.19	8772
094 16:26:52	-9.16	8773
094 18:11:45	-35.51	8774
094 19:56:39	-61.85	8775
094 21:41:32	-88.20	8776
094 23:26:26	-114.55	8777

094 00:33:11	5.41	5493
094 02:18:06	-20.95	5494
094 04:03:01	-47.30	5495
094 05:47:57	-73.66	5496
094 07:32:52	-100.01	5497
094 09:17:47	-126.37	5498
094 11:02:43	-152.72	5499
094 12:47:38	-179.08	5500
094 14:32:33	154.56	5501
094 16:17:29	128.21	5502
094 18:02:24	101.85	5503
094 19:47:19	75.49	5504
094 21:32:15	49.14	5505
094 23:17:10	22.78	5506

095 01:11:20	-140.90	8778
095 02:56:13	-167.25	8779
095 04:41:07	166.40	8780
095 06:26:00	140.05	8781
095 08:10:54	113.71	8782
095 09:55:47	87.36	8783
095 11:40:41	61.01	8784
095 13:25:34	34.66	8785
095 15:10:28	8.31	8786
095 16:55:21	-18.04	8787
095 18:40:15	-44.38	8788
095 20:25:08	-70.73	8789
095 22:10:02	-97.08	8790
095 23:54:55	-123.43	8791

095 01:02:05	-3.57	5507
095 02:47:01	-29.93	5508
095 04:31:56	-56.28	5509
095 06:16:51	-82.64	5510
095 08:01:47	-109.00	5511
095 09:46:42	-135.35	5512
095 11:31:37	-161.71	5513
095 13:16:32	171.93	5514
095 15:01:28	145.58	5515
095 16:46:23	119.22	5516
095 18:31:18	92.87	5517
095 20:16:14	66.51	5518
095 22:01:09	40.15	5519
095 23:46:04	13.80	5520

096 01:39:49	-149.78	8792
096 03:24:42	-176.13	8793
096 05:09:36	157.52	8794
096 06:54:29	131.17	8795
096 08:39:23	104.83	8796
096 10:24:16	78.48	8797
096 12:09:10	52.13	8798
096 13:54:03	25.78	8799
096 15:38:57	-57	8800
096 17:23:50	-26.92	8801
096 19:08:44	-53.26	8802
096 20:53:37	-79.61	8803
096 22:38:31	-105.96	8804

096 01:31:00	-12.56	5521
096 03:15:55	-38.91	5522
096 05:00:50	-65.27	5523
096 06:45:46	-91.62	5524
096 08:30:41	-117.98	5525
096 10:15:36	-144.34	5526
096 12:00:32	-170.69	5527
096 13:45:27	162.95	5528
096 15:30:22	136.59	5529
096 17:15:18	110.24	5530
096 19:00:13	83.88	5531
096 20:45:08	57.53	5532
096 22:30:04	31.17	5533

SATELLITE S2**Ascending Node Predictions**

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

093 00:33:16	-94.58	32490
093 02:15:15	-120.07	32491
093 03:57:15	-145.57	32492
093 05:39:14	-171.06	32493
093 07:21:14	163.44	32494
093 09:03:14	137.94	32495
093 10:45:13	112.45	32496
093 12:27:13	86.95	32497
093 14:09:12	61.46	32498
093 15:51:12	35.96	32499
093 17:33:11	10.47	32500
093 19:15:11	-15.03	32501
093 20:57:10	-40.52	32502
093 22:39:10	-66.02	32503

SATELLITE S3**Ascending Node Predictions**

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

093 00:57:36	-85.96	23583
093 02:38:48	-111.26	23584
093 04:20:00	-136.56	23585
093 06:01:12	-161.86	23586
093 07:42:24	172.84	23587
093 09:23:36	147.54	23588
093 11:04:49	122.23	23589
093 12:46:01	96.93	23590
093 14:27:13	71.63	23591
093 16:08:25	46.33	23592
093 17:49:37	21.03	23593
093 19:30:49	-4.27	23594
093 21:12:02	-29.58	23595
093 22:53:14	-54.88	23596

SATELLITE S4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

093 01:20:59	-164.35	12986
093 03:03:03	170.13	12987
093 04:45:07	144.61	12988
093 06:27:11	119.09	12989
093 08:09:15	93.58	12990
093 09:51:19	68.06	12991
093 11:33:22	42.56	12992
093 13:15:26	17.04	12993
093 14:57:30	-8.48	12994
093 16:39:34	-34.00	12995
093 18:21:38	-59.51	12996
093 20:03:41	-85.02	12997
093 21:45:45	-110.53	12998
093 23:27:49	-136.05	12999

094 00:21:09	-91.51	32504
094 02:03:09	-117.01	32505
094 03:45:08	-142.50	32506
094 05:27:08	-168.00	32507
094 07:09:07	166.51	32508
094 08:51:07	141.01	32509
094 10:33:06	115.52	32510
094 12:15:06	90.02	32511
094 13:57:05	64.53	32512
094 15:39:05	39.03	32513
094 17:21:04	13.54	32514
094 19:03:04	-11.96	32515
094 20:45:03	-37.45	32516
094 22:27:03	-62.95	32517

094 00:34:26	-80.18	23597
094 02:15:38	-105.48	23598
094 03:56:50	-130.77	23599
094 05:38:02	-156.07	23600
094 07:19:15	178.61	23601
094 09:00:27	153.32	23602
094 10:41:39	128.02	23603
094 12:22:51	102.72	23604
094 14:04:03	77.42	23605
094 15:45:15	52.12	23606
094 17:26:28	26.81	23607
094 19:07:40	1.51	23608
094 20:48:52	-23.79	23609
094 22:30:04	-49.09	23610

094 01:09:53	-161.57	13000
094 02:51:57	172.91	13001
094 04:34:00	147.41	13002
094 06:16:04	121.89	13003
094 07:58:08	96.37	13004
094 09:40:12	70.86	13005
094 11:22:16	45.34	13006
094 13:04:19	19.84	13007
094 14:46:23	-5.68	13008
094 16:28:27	-31.20	13009
094 18:10:31	-56.72	13010
094 19:52:35	-82.23	13011
094 21:34:38	-107.74	13012
094 23:16:42	-133.25	13013

095 00:09:02	-88.44	32518
095 01:51:02	-113.94	32519
095 03:33:01	-139.43	32520
095 05:15:01	-164.93	32521
095 06:57:00	169.58	32522
095 08:39:00	144.08	32523
095 10:20:59	118.59	32524
095 12:02:59	93.09	32525
095 13:44:58	67.60	32526
095 15:26:58	42.10	32527
095 17:08:57	16.61	32528
095 18:50:57	-8.89	32529
095 20:32:56	-34.38	32530
095 22:14:56	-59.89	32531
095 23:56:55	-85.37	32532

095 00:11:16	-74.39	23611
095 01:52:28	-99.69	23612
095 03:33:41	-125.00	23613
095 05:14:53	-150.30	23614
095 06:56:05	-175.60	23615
095 08:37:17	159.10	23616
095 10:18:29	133.80	23617
095 11:59:41	108.50	23618
095 13:40:54	83.19	23619
095 15:22:06	57.89	23620
095 17:03:18	32.59	23621
095 18:44:30	7.29	23622
095 20:25:42	-18.01	23623
095 22:06:54	-43.31	23624
095 23:48:07	-68.62	23625

095 00:58:46	-158.77	13014
095 02:40:50	175.71	13015
095 04:22:54	150.19	13016
095 06:04:58	124.68	13017
095 07:47:01	99.17	13018
095 09:29:05	73.65	13019
095 11:11:09	48.14	13020
095 12:53:13	22.62	13021
095 14:35:17	-2.90	13022
095 16:17:20	-28.40	13023
095 17:59:24	-53.92	13024
095 19:41:28	-79.44	13025
095 21:23:32	-104.95	13026
095 23:05:36	-130.47	13027

096 01:38:55	-110.88	32533
096 03:20:54	-136.36	32534
096 05:02:54	-161.87	32535
096 06:44:53	172.65	32536
096 08:26:53	147.14	32537
096 10:08:52	121.66	32538
096 11:50:52	96.15	32539
096 13:32:52	70.65	32540
096 15:14:51	45.16	32541
096 16:56:51	19.66	32542
096 18:38:50	-5.83	32543
096 20:20:50	-31.33	32544
096 22:02:49	-56.82	32545
096 23:44:49	-82.32	32546

096 01:29:19	-93.92	23626
096 03:10:31	-119.22	23627
096 04:51:43	-144.51	23628
096 06:32:55	-169.81	23629
096 08:14:07	164.89	23630
096 09:55:20	139.57	23631
096 11:36:32	114.28	23632
096 13:17:44	88.98	23633
096 14:58:56	63.68	23634
096 16:40:08	38.38	23635
096 18:21:20	13.08	23636
096 20:02:33	-12.23	23637
096 21:43:45	-37.53	23638
096 23:24:57	-62.83	23639

096 00:47:39	-155.97	13028
096 02:29:43	178.51	13029
096 04:11:47	152.99	13030
096 05:53:51	127.47	13031
096 07:35:55	101.96	13032
096 09:17:58	76.45	13033
096 11:00:02	50.94	13034
096 12:42:06	25.42	13035
096 14:24:10	-10	13036
096 16:06:14	-25.62	13037
096 17:48:17	-51.12	13038
096 19:30:21	-76.64	13039
096 21:12:25	-102.16	13040
096 22:54:29	-127.67	13041

SATELLITE C4

Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

097 00:23:24	-132.31	8805
097 02:08:18	-158.66	8806
097 03:53:11	174.99	8807
097 05:38:05	148.65	8808
097 07:22:58	122.30	8809
097 09:07:52	95.95	8810
097 10:52:45	69.60	8811
097 12:37:39	43.25	8812
097 14:22:32	16.90	8813
097 16:07:26	-9.45	8814
097 17:52:19	-35.80	8815
097 19:37:13	-62.14	8816
097 21:22:06	-88.49	8817
097 23:07:00	-114.84	8818

SATELLITE C5

Ascending Node Predictions

Predicting for 185 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

097 00:14:59	4.82	5534
097 01:59:54	-21.54	5535
097 03:44:49	-47.90	5536
097 05:29:45	-74.25	5537
097 07:14:40	-100.61	5538
097 08:59:35	-126.97	5539
097 10:44:31	-153.32	5540
097 12:29:26	-179.68	5541
097 14:14:21	153.97	5542
097 15:59:17	127.61	5543
097 17:44:12	101.25	5544
097 19:29:07	74.90	5545
097 21:14:03	48.54	5546
097 22:58:58	22.19	5547

098 00:51:54	-141.19	8819
098 02:36:47	-167.54	8820
098 04:21:41	166.12	8821
098 06:06:34	139.77	8822
098 07:51:28	113.42	8823
098 09:36:21	87.07	8824
098 11:21:15	60.72	8825
098 13:06:08	34.37	8826
098 14:51:02	8.03	8827
098 16:35:55	-18.32	8828
098 18:20:49	-44.67	8829
098 20:05:42	-71.02	8830
098 21:50:36	-97.37	8831
098 23:35:29	-123.72	8832

098 00:43:53	-4.17	5548
098 02:28:49	-30.52	5549
098 04:13:44	-56.88	5550
098 05:58:39	-83.24	5551
098 07:43:35	-109.59	5552
098 09:28:30	-135.95	5553
098 11:13:25	-162.31	5554
098 12:58:21	171.34	5555
098 14:43:16	144.98	5556
098 16:28:11	118.63	5557
098 18:13:07	92.27	5558
098 19:58:02	65.92	5559
098 21:42:57	39.56	5560
098 23:27:52	13.20	5561

099 01:20:23	-150.07	8833
099 03:05:16	-176.42	8834
099 04:50:10	157.24	8835
099 06:35:03	130.89	8836
099 08:19:57	104.54	8837
099 10:04:50	78.19	8838
099 11:49:44	51.84	8839
099 13:34:37	25.49	8840
099 15:19:31	-.85	8841
099 17:04:24	-27.20	8842
099 18:49:18	-53.55	8843
099 20:34:11	-79.90	8844
099 22:19:05	-106.25	8845

099 01:12:48	-13.15	5562
099 02:57:43	-39.51	5563
099 04:42:38	-65.87	5564
099 06:27:34	-92.22	5565
099 08:12:29	-118.58	5566
099 09:57:24	-144.93	5567
099 11:42:20	-171.29	5568
099 13:27:15	162.35	5569
099 15:12:10	136.00	5570
099 16:57:06	109.64	5571
099 18:42:01	83.29	5572
099 20:26:56	56.93	5573
099 22:11:52	30.58	5574
099 23:56:47	4.22	5575

100 00:03:58	-132.60	8846
100 01:48:52	-158.95	8847
100 03:33:45	174.70	8848
100 05:18:39	148.36	8849
100 07:03:32	122.01	8850
100 08:48:26	95.66	8851
100 10:33:20	69.31	8852
100 12:18:13	42.96	8853
100 14:03:07	16.62	8854
100 15:48:00	-9.73	8855
100 17:32:54	-36.08	8856
100 19:17:47	-62.43	8857
100 21:02:41	-88.78	8858
100 22:47:34	-115.13	8859

100 01:41:42	-22.14	5576
100 03:26:38	-48.49	5577
100 05:11:33	-74.85	5578
100 06:56:28	-101.21	5579
100 08:41:24	-127.56	5580
100 10:26:19	-153.92	5581
100 12:11:14	179.73	5582
100 13:56:10	153.37	5583
100 15:41:05	127.01	5584
100 17:26:00	100.66	5585
100 19:10:56	74.30	5586
100 20:55:51	47.95	5587
100 22:40:46	21.59	5588

SATELLITE S2
Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

097 01:26:48	-107.81	32547
097 03:08:48	-133.31	32548
097 04:50:47	-158.80	32549
097 06:32:47	175.70	32550
097 08:14:46	150.21	32551
097 09:56:46	124.71	32552
097 11:38:45	99.22	32553
097 13:20:45	73.72	32554
097 15:02:44	48.23	32555
097 16:44:44	22.73	32556
097 18:26:43	-2.76	32557
097 20:08:43	-28.26	32558
097 21:50:42	-53.75	32559
097 23:32:42	-79.25	32560

SATELLITE S3
Ascending Node Predictions
Predicting for 184 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

097 01:06:09	-88.13	23640
097 02:47:21	-113.43	23641
097 04:28:33	-138.73	23642
097 06:09:46	-164.04	23643
097 07:50:58	170.66	23644
097 09:32:10	145.36	23645
097 11:13:22	120.06	23646
097 12:54:34	94.76	23647
097 14:35:46	69.46	23648
097 16:16:59	44.15	23649
097 17:58:11	18.85	23650
097 19:39:23	-6.45	23651
097 21:20:35	-31.75	23652
097 23:01:47	-57.05	23653

SATELLITE S4
Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

097 00:36:33	-153.19	13042
097 02:18:37	-178.71	13043
097 04:00:40	155.79	13044
097 05:42:44	130.27	13045
097 07:24:48	104.75	13046
097 09:06:52	79.24	13047
097 10:48:56	53.72	13048
097 12:30:59	28.22	13049
097 14:13:03	2.70	13050
097 15:55:07	-22.82	13051
097 17:37:11	-48.34	13052
097 19:19:15	-73.85	13053
097 21:01:18	-99.36	13054
097 22:43:22	-124.88	13055

098 01:14:41	-104.74	32561
098 02:56:41	-130.24	32562
098 04:38:40	-155.73	32563
098 06:20:40	178.77	32564
098 08:02:39	153.28	32565
098 09:44:39	127.78	32566
098 11:26:38	102.29	32567
098 13:08:38	76.79	32568
098 14:50:37	51.30	32569
098 16:32:37	25.80	32570
098 18:14:36	.31	32571
098 19:56:36	-25.19	32572
098 21:38:35	-50.68	32573
098 23:20:35	-76.18	32574

098 00:42:59	-82.34	23654
098 02:24:12	-107.66	23655
098 04:05:24	-132.96	23656
098 05:46:36	-158.26	23657
098 07:27:48	176.45	23658
098 09:09:00	151.15	23659
098 10:50:12	125.85	23660
098 12:31:25	100.54	23661
098 14:12:37	75.24	23662
098 15:53:49	49.94	23663
098 17:35:01	24.64	23664
098 19:16:13	-66	23665
098 20:57:25	-25.96	23666
098 22:38:38	-51.27	23667

098 00:25:26	-150.39	13056
098 02:07:30	-175.91	13057
098 03:49:34	158.57	13058
098 05:31:37	133.07	13059
098 07:13:41	107.55	13060
098 08:55:45	82.03	13061
098 10:37:49	56.52	13062
098 12:19:53	31.00	13063
098 14:01:56	5.50	13064
098 15:44:00	-20.02	13065
098 17:26:04	-45.54	13066
098 19:08:08	-71.06	13067
098 20:50:12	-96.57	13068
098 22:32:16	-122.09	13069

099 01:02:34	-101.67	32575
099 02:44:34	-127.17	32576
099 04:26:33	-152.66	32577
099 06:08:33	-178.16	32578
099 07:50:33	156.33	32579
099 09:32:32	130.85	32580
099 11:14:32	105.34	32581
099 12:56:31	79.86	32582
099 14:38:31	54.35	32583
099 16:20:30	28.87	32584
099 18:02:30	3.36	32585
099 19:44:29	-22.12	32586
099 21:26:29	-47.63	32587
099 23:08:28	-73.11	32588

099 00:19:50	-76.57	23668
099 02:01:02	-101.87	23669
099 03:42:14	-127.17	23670
099 05:23:26	-152.47	23671
099 07:04:38	-177.77	23672
099 08:45:51	156.92	23673
099 10:27:03	131.62	23674
099 12:08:15	106.32	23675
099 13:49:27	81.02	23676
099 15:30:39	55.72	23677
099 17:11:51	30.42	23678
099 18:53:04	5.11	23679
099 20:34:16	-20.19	23680
099 22:15:28	-45.49	23681
099 23:56:40	-70.79	23682

099 00:14:19	-147.60	13070
099 01:56:23	-173.11	13071
099 03:38:27	161.37	13072
099 05:20:31	135.85	13073
099 07:02:35	110.34	13074
099 08:44:38	84.83	13075
099 10:26:42	59.31	13076
099 12:08:46	33.80	13077
099 13:50:50	-8.28	13078
099 15:32:54	-17.24	13079
099 17:14:57	-42.74	13080
099 18:57:01	-68.26	13081
099 20:39:05	-93.78	13082
099 22:21:09	-119.29	13083

100 00:50:28	-98.62	32589
100 02:32:27	-124.11	32590
100 04:14:27	-149.61	32591
100 05:56:26	-175.10	32592
100 07:38:26	159.40	32593
100 09:20:25	133.91	32594
100 11:02:25	108.41	32595
100 12:44:24	82.92	32596
100 14:26:24	57.42	32597
100 16:08:23	31.93	32598
100 17:50:23	6.43	32599
100 19:32:22	-19.06	32600
100 21:14:22	-44.56	32601
100 22:56:21	-70.05	32602

100 01:37:52	-96.09	23683
100 03:19:04	-121.38	23684
100 05:00:17	-146.70	23685
100 06:41:29	-172.00	23686
100 08:22:41	162.71	23687
100 10:03:53	137.41	23688
100 11:45:05	112.11	23689
100 13:26:17	86.81	23690
100 15:07:30	61.50	23691
100 16:48:42	36.20	23692
100 18:29:54	10.90	23693
100 20:11:06	-14.40	23694
100 21:52:18	-39.70	23695
100 23:33:30	-65.00	23696

100 00:03:13	-144.81	13084
100 01:45:16	-170.31	13085
100 03:27:20	164.17	13086
100 05:09:24	138.65	13087
100 06:51:28	113.13	13088
100 08:33:32	87.62	13089
100 10:15:35	62.11	13090
100 11:57:39	36.59	13091
100 13:39:43	11.08	13092
100 15:21:47	-14.44	13093
100 17:03:51	-39.96	13094
100 18:45:54	-65.46	13095
100 20:27:58	-90.98	13096
100 22:10:02	-116.50	13097
100 23:52:06	-142.01	13098

SATELLITE C4
Ascending Node Predictions
Predicting for 183 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

101 00:32:28	-141.48	8860
101 02:17:21	-167.83	8861
101 04:02:15	165.83	8862
101 05:47:08	139.48	8863
101 07:32:02	113.13	8864
101 09:16:55	86.78	8865
101 11:01:49	60.43	8866
101 12:46:42	34.08	8867
101 14:31:36	7.74	8868
101 16:16:29	-18.61	8869
101 18:01:23	-44.96	8870
101 19:46:16	-71.31	8871
101 21:31:10	-97.66	8872
101 23:16:03	-124.01	8873

SATELLITE C5
Ascending Node Predictions
Predicting for 185 days
TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

101 00:25:42	-4.76	5589
101 02:10:37	-31.12	5590
101 03:55:32	-57.48	5591
101 05:40:27	-83.84	5592
101 07:25:23	-110.19	5593
101 09:10:18	-136.55	5594
101 10:55:13	-162.90	5595
101 12:40:09	170.74	5596
101 14:25:04	144.39	5597
101 16:09:59	118.03	5598
101 17:54:55	91.67	5599
101 19:39:50	65.32	5600
101 21:24:45	38.96	5601
101 23:09:41	12.61	5602

102 01:00:57	-150.36	8874
102 02:45:50	-176.71	8875
102 04:30:44	156.95	8876
102 06:15:37	130.60	8877
102 08:00:31	104.25	8878
102 09:45:24	77.90	8879
102 11:30:18	51.55	8880
102 13:15:12	25.21	8881
102 15:00:05	-1.14	8882
102 16:44:59	-27.49	8883
102 18:29:52	-53.84	8884
102 20:14:46	-80.19	8885
102 21:59:39	-106.54	8886
102 23:44:33	-132.89	8887

102 00:54:36	-13.75	5603
102 02:39:31	-40.11	5604
102 04:24:27	-66.46	5605
102 06:09:22	-92.82	5606
102 07:54:17	-119.18	5607
102 09:39:13	-145.53	5608
102 11:24:08	-171.89	5609
102 13:09:03	161.76	5610
102 14:53:59	135.40	5611
102 16:38:54	109.05	5612
102 18:23:49	82.69	5613
102 20:08:45	56.33	5614
102 21:53:40	29.98	5615
102 23:38:35	3.62	5616

103 01:29:26	-159.24	8888
103 03:14:20	174.42	8889
103 04:59:13	148.07	8890
103 06:44:07	121.72	8891
103 08:29:00	95.37	8892
103 10:13:54	69.02	8893
103 11:58:47	42.67	8894
103 13:43:41	16.33	8895
103 15:28:34	-10.02	8896
103 17:13:28	-36.37	8897
103 18:58:21	-62.72	8898
103 20:43:15	-89.07	8899
103 22:28:08	-115.42	8900

103 01:23:31	-22.73	5617
103 03:08:26	-49.09	5618
103 04:53:21	-75.45	5619
103 06:38:17	-101.80	5620
103 08:23:12	-128.16	5621
103 10:08:07	-154.52	5622
103 11:53:03	179.13	5623
103 13:37:58	152.77	5624
103 15:22:53	126.42	5625
103 17:07:49	100.06	5626
103 18:52:44	73.70	5627
103 20:37:39	47.35	5628
103 22:22:35	20.99	5629

104 00:13:02	-141.77	8901
104 01:57:55	-168.12	8902
104 03:42:49	165.54	8903
104 05:27:42	139.19	8904
104 07:12:36	112.84	8905
104 08:57:30	86.49	8906
104 10:42:23	60.14	8907
104 12:27:17	33.80	8908
104 14:12:10	7.45	8909
104 15:57:04	-18.90	8910
104 17:41:57	-45.25	8911
104 19:26:51	-71.60	8912
104 21:11:44	-97.95	8913
104 22:56:38	-124.30	8914

104 00:07:30	-5.36	5630
104 01:52:25	-31.72	5631
104 03:37:21	-58.07	5632
104 05:22:16	-84.43	5633
104 07:07:11	-110.79	5634
104 08:52:07	-137.14	5635
104 10:37:02	-163.50	5636
104 12:21:57	170.14	5637
104 14:06:52	143.79	5638
104 15:51:48	117.43	5639
104 17:36:43	91.08	5640
104 19:21:38	64.72	5641
104 21:06:34	38.36	5642
104 22:51:29	12.01	5643

SATELLITE S2
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

 101 00:38:21 -95.55 32603
 101 02:20:20 -121.04 32604
 101 04:02:20 -146.54 32605
 101 05:44:19 -172.03 32606
 101 07:26:19 162.47 32607
 101 09:08:18 136.98 32608
 101 10:50:18 111.48 32609
 101 12:32:17 85.99 32610
 101 14:14:17 60.49 32611
 101 15:56:16 35.00 32612
 101 17:38:16 9.50 32613
 101 19:20:16 -16.00 32614
 101 21:02:15 -41.49 32615
 101 22:44:15 -66.99 32616

SATELLITE S3
Ascending Node Predictions

Predicting for 184 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

 101 01:14:43 -90.31 23697
 101 02:55:55 -115.61 23698
 101 04:37:07 -140.91 23699
 101 06:18:19 -166.21 23700
 101 07:59:31 168.49 23701
 101 09:40:43 143.19 23702
 101 11:21:56 117.88 23703
 101 13:03:08 92.58 23704
 101 14:44:20 67.28 23705
 101 16:25:32 41.98 23706
 101 18:06:44 16.68 23707
 101 19:47:56 -8.62 23708
 101 21:29:09 -33.93 23709
 101 23:10:21 -59.23 23710

SATELLITE S4
Ascending Node Predictions

Predicting for 183 days

TIME (GMT) **E LONG ORBIT**
 day hr mn sc deg dg

 101 01:34:10 -167.53 13099
 101 03:16:14 166.95 13100
 101 04:58:17 141.45 13101
 101 06:40:21 115.93 13102
 101 08:22:25 90.41 13103
 101 10:04:29 64.90 13104
 101 11:46:33 39.38 13105
 101 13:28:36 13.87 13106
 101 15:10:40 -11.64 13107
 101 16:52:44 -37.16 13108
 101 18:34:48 -62.68 13109
 101 20:16:52 -88.19 13110
 101 21:58:55 -113.70 13111
 101 23:40:59 -139.22 13112

 102 00:26:14 -92.48 32617
 102 02:08:14 -117.98 32618
 102 03:50:13 -143.47 32619
 102 05:32:13 -168.97 32620
 102 07:14:12 165.54 32621
 102 08:56:12 140.04 32622
 102 10:38:11 114.55 32623
 102 12:20:11 89.05 32624
 102 14:02:10 63.56 32625
 102 15:44:10 38.06 32626
 102 17:26:09 12.57 32627
 102 19:08:09 -12.93 32628
 102 20:50:08 -38.42 32629
 102 22:32:08 -63.92 32630

 102 00:51:33 -84.53 23711
 102 02:32:45 -109.83 23712
 102 04:13:57 -135.13 23713
 102 05:55:09 -160.42 23714
 102 07:36:22 174.26 23715
 102 09:17:34 148.96 23716
 102 10:58:46 123.67 23717
 102 12:39:58 98.37 23718
 102 14:21:10 73.07 23719
 102 16:02:22 47.77 23720
 102 17:43:35 22.46 23721
 102 19:24:47 -2.84 23722
 102 21:05:59 -28.14 23723
 102 22:47:11 -53.44 23724

 102 01:23:03 -164.73 13113
 102 03:05:07 169.75 13114
 102 04:47:11 144.23 13115
 102 06:29:14 118.73 13116
 102 08:11:18 93.21 13117
 102 09:53:22 67.69 13118
 102 11:35:26 42.18 13119
 102 13:17:30 16.66 13120
 102 14:59:33 -8.84 13121
 102 16:41:37 -34.36 13122
 102 18:23:41 -59.88 13123
 102 20:05:45 -85.40 13124
 102 21:47:49 -110.91 13125
 102 23:29:53 -136.43 13126

 103 00:14:07 -89.41 32631
 103 01:56:07 -114.91 32632
 103 03:38:06 -140.40 32633
 103 05:20:06 -165.90 32634
 103 07:02:05 168.61 32635
 103 08:44:05 143.11 32636
 103 10:26:04 117.62 32637
 103 12:08:04 92.12 32638
 103 13:50:03 66.63 32639
 103 15:32:03 41.13 32640
 103 17:14:02 15.64 32641
 103 18:56:02 -9.86 32642
 103 20:38:01 -35.35 32643
 103 22:20:01 -60.85 32644

 103 00:28:23 -78.74 23725
 103 02:09:35 -104.04 23726
 103 03:50:48 -129.35 23727
 103 05:32:00 -154.65 23728
 103 07:13:12 -179.95 23729
 103 08:54:24 154.75 23730
 103 10:35:36 129.45 23731
 103 12:16:48 104.15 23732
 103 13:58:01 78.84 23733
 103 15:39:13 53.54 23734
 103 17:20:25 28.24 23735
 103 19:01:37 2.94 23736
 103 20:42:49 -22.36 23737
 103 22:24:01 -47.66 23738

 103 01:11:56 -161.94 13127
 103 02:54:00 172.55 13128
 103 04:36:04 147.03 13129
 103 06:18:08 121.51 13130
 103 08:00:12 96.00 13131
 103 09:42:15 70.49 13132
 103 11:24:19 44.97 13133
 103 13:06:23 19.46 13134
 103 14:48:27 -6.06 13135
 103 16:30:31 -31.58 13136
 103 18:12:34 -57.08 13137
 103 19:54:38 -82.60 13138
 103 21:36:42 -108.12 13139
 103 23:18:46 -133.63 13140

 104 00:02:00 -86.34 32645
 104 01:44:00 -111.85 32646
 104 03:26:00 -137.35 32647
 104 05:07:59 -162.84 32648
 104 06:49:59 171.66 32649
 104 08:31:58 146.17 32650
 104 10:13:58 120.67 32651
 104 11:55:57 95.18 32652
 104 13:37:57 69.68 32653
 104 15:19:56 44.19 32654
 104 17:01:56 18.69 32655
 104 18:43:55 -6.80 32656
 104 20:25:55 -32.30 32657
 104 22:07:54 -57.79 32658
 104 23:49:54 -83.29 32659

 104 00:05:13 -72.96 23739
 104 01:46:26 -98.27 23740
 104 03:27:38 -123.57 23741
 104 05:08:50 -148.87 23742
 104 06:50:02 -174.17 23743
 104 08:31:14 160.54 23744
 104 10:12:26 135.24 23745
 104 11:53:39 109.92 23746
 104 13:34:51 84.62 23747
 104 15:16:03 59.33 23748
 104 16:57:15 34.03 23749
 104 18:38:27 8.73 23750
 104 20:19:39 -16.57 23751
 104 22:00:52 -41.88 23752
 104 23:42:04 -67.18 23753

 104 01:00:50 -159.15 13141
 104 02:42:53 175.34 13142
 104 04:24:57 149.83 13143
 104 06:07:01 124.31 13144
 104 07:49:05 98.79 13145
 104 09:31:09 73.28 13146
 104 11:13:12 47.77 13147
 104 12:55:16 22.25 13148
 104 14:37:20 -3.26 13149
 104 16:19:24 -28.78 13150
 104 18:01:28 -54.30 13151
 104 19:43:31 -79.80 13152
 104 21:25:35 -105.32 13153
 104 23:07:39 -130.84 13154

SATELLITE C4**Ascending Node Predictions**

Predicting for 183 days

TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

105 00:41:31	-150.65	8915
105 02:26:25	-176.99	8916
105 04:11:18	156.66	8917
105 05:56:12	130.31	8918
105 07:41:05	103.96	8919
105 09:25:59	77.61	8920
105 11:10:52	51.26	8921
105 12:55:46	24.92	8922
105 14:40:39	-1.43	8923
105 16:25:33	-27.78	8924
105 18:10:26	-54.13	8925
105 19:55:20	-80.48	8926
105 21:40:14	-106.83	8927
105 23:25:07	-133.18	8928

SATELLITE C5**Ascending Node Predictions**

Predicting for 185 days

TIME (GMT) E LONG ORBIT
day hr mn sc deg dg

105 00:36:24	-14.35	5644
105 02:21:20	-40.70	5645
105 04:06:15	-67.06	5646
105 05:51:10	-93.42	5647
105 07:36:06	-119.77	5648
105 09:21:01	-146.13	5649
105 11:05:56	-172.49	5650
105 12:50:52	161.16	5651
105 14:35:47	134.80	5652
105 16:20:42	108.45	5653
105 18:05:38	82.09	5654
105 19:50:33	55.73	5655
105 21:35:28	29.38	5656
105 23:20:24	3.02	5657

SATELLITE S2

Ascending Node Predictions

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

105 01:31:53	-108.78	32660
105 03:13:53	-134.28	32661
105 04:55:52	-159.77	32662
105 06:37:52	174.73	32663
105 08:19:51	149.24	32664
105 10:01:51	123.74	32665
105 11:43:50	98.25	32666
105 13:25:50	72.75	32667
105 15:07:49	47.26	32668
105 16:49:49	21.76	32669
105 18:31:48	-3.73	32670
105 20:13:48	-29.23	32671
105 21:55:47	-54.72	32672
105 23:37:47	-80.22	32673

SATELLITE S3

Ascending Node Predictions

Predicting for 184 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

105 01:23:16	-92.48	23754
105 03:04:28	-117.78	23755
105 04:45:40	-143.08	23756
105 06:26:52	-168.38	23757
105 08:08:05	166.31	23758
105 09:49:17	141.01	23759
105 11:30:29	115.71	23760
105 13:11:41	90.41	23761
105 14:52:53	65.11	23762
105 16:34:05	39.81	23763
105 18:15:18	14.50	23764
105 19:56:30	-10.80	23765
105 21:37:42	-36.10	23766
105 23:18:54	-61.40	23767

SATELLITE S4

Ascending Node Predictions

Predicting for 183 days

TIME (GMT)	E LONG	ORBIT
day hr mn sc	deg dg	

105 00:49:43	-156.35	13155
105 02:31:47	178.13	13156
105 04:13:51	152.61	13157
105 05:55:54	127.11	13158
105 07:37:58	101.59	13159
105 09:20:02	76.07	13160
105 11:02:06	50.56	13161
105 12:44:10	25.04	13162
105 14:26:13	-47	13163
105 16:08:17	-25.98	13164
105 17:50:21	-51.50	13165
105 19:32:25	-77.02	13166
105 21:14:29	-102.53	13167
105 22:56:32	-128.04	13168



Report Documentation Page

1. Report No. NASA TM-85015	2. Government Accession No.	3. Recipient's Catalog No.	
4. Title and Subtitle COSPAS-SARSAT Satellite Orbit Predictor Volume XVI		5. Report Date October 1990	
		6. Performing Organization Code 480	
7. Author(s) Morton L. Friedman		8. Performing Organization Report No. 90B00141	
		10. Work Unit No.	
9. Performing Organization Name and Address Goddard Space Flight Center Greenbelt, Maryland 20770		11. Contract or Grant No.	
		13. Type of Report and Period Covered Technical Memorandum	
12. Sponsoring Agency Name and Address National Aeronautics and Space Administration Washington, D.C. 20546-0001		14. Sponsoring Agency Code	
15. Supplementary Notes Issued periodically.			
16. Abstract <p>This report is an analog aid to determine satellite coverage of Emergency Locator Transmitter (ELT)/Emergency Position Indicating Radio Beacon (EPIRB) distress incidents. The predicted orbits listed cover the period from October 16, 1990, through April 15, 1991. The predictor allows the user to determine if a selected position will probably be detected, and is composed of a base map and a satellite track overlay for each satellite.</p>			
17. Key Words (Suggested by Author(s)) COSPAS SARSAT Search and Rescue Orbital Position Estimation		18. Distribution Statement Unclassified - Unlimited Subject Category 15	
19. Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No. of pages 108	22. Price